

INTEGRATED MATERIALS PERFORMANCE EVALUATION PROGRAM
QUESTIONNAIRE

Reporting Period:

Note: If there has been no change in the response to a specific question since the last IMPEP questionnaire, the Nuclear Regulatory Commission (NRC) may copy the previous answer, if appropriate.

A. GENERAL

1. Please prepare a summary of the status of the NRC's actions taken in response to each of the open recommendations from previous IMPEP reviews.

RESPONSES:

*Sealed Source and Device (SS&D) Evaluation Program.-
Reporting Period: December 12, 2014 – June 11, 2021*

During the 2014 IMPEP of the SS&D Program the review team made one recommendation: "The review team recommends that the Branch develop and implement a mechanism to obtain missing historical documents referenced in the Sealed Source and Device (SS&D) registration certificates transferred from the State of Georgia." In response to the recommendation the staff, worked with the State of Georgia and certificate holders to locate the missing historical documents. The staff summarized their efforts and results in a memorandum dated January 20, 2016 (ML16006A273).

Region I - Reporting Period: April 4, 2015 - June 11, 2021

The 2015 Region I IMPEP report included no comments or recommendations. The report from the Periodic Meeting in February 2018 indicated performance was satisfactory with no performance concerns or issues identified.

Region III - Reporting Period: July 22, 2017 – June 11, 2021

There were no recommendations from the previous Region III IMPEP in 2017.

¹An OMB clearance is not needed for the responses for the NRC IMPEP Review since this activity is internal to the agency. The identical form was used to be consistent with other IMPEP reviews conducted of NRC's regulatory partners in the National Materials Program. Estimated burden per response to comply with this voluntary collection request: 53 hours. Forward comments regarding burden estimate to the Records Management Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0183), Office of Management and Budget, Washington, DC 20503. If an information collection does not display a currently valid OMB control number, NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

Region IV - Reporting Period: April 6, 2019 – June 11, 2021

Did not have any open recommendations from previous IMPEP reviews. Therefore, there is no response necessary.

B. COMMON PERFORMANCE INDICATORS

I. Technical Staffing and Training

2. Please provide the following organization charts, including names and positions:

- (a) A chart showing positions from the Commission down to the Radiation Control Program Director;

RESPONSE:

See Appendix A for the organization chart of the NRC Office of Nuclear Material Safety and Safeguards (NMSS).

- (b) A chart showing positions of the radiation control program, including management; and

RESPONSE:

See Appendix B for the full Region I, III, and IV organization charts.

- (c) Equivalent charts for sealed source and device evaluation, complex decommissioning and uranium recovery programs, if applicable.

RESPONSE:

See Appendix C for the organization charts. Note that complex decommissioning actions in the Division of Decommissioning, Uranium Recovery and Waste Programs are handled by both the Uranium Recovery and Materials Decommissioning Branch and the Low Level Waste and Special Projects Branch. References to "Low Level Waste" in this questionnaire indicate the Low Level Waste and Special Projects Branch's contribution to the NRC's complex decommissioning program.

3. Please provide a staffing plan, or complete a listing using the suggested format below, of the professional (technical) full-time equivalents (FTE) applied to the radioactive materials program by individual. Include the name, position, and, for Agreement States, the fraction of time spent in the following areas: administration, materials licensing & compliance, emergency response, low-level radioactive waste, uranium recovery, other. If these regulatory responsibilities are divided between offices, the table should be consolidated to include all personnel contributing to the radioactive materials program.

If consultants were used to carry out the program's radioactive materials responsibilities, include their efforts.

RESPONSE:

See Appendix D for the staff plans.

4. Please provide a listing of all new professional personnel hired into your radioactive materials program since the last review, indicate the date of hire; the degree(s) they received, if applicable; additional training; and years of experience in health physics or other disciplines, as appropriate.

RESPONSE:

See Appendix E for the personnel hired.

5. Please list all professional staff who have not yet met the qualification requirements for a radioactive materials license reviewer or inspector. For each, list the courses or equivalent training/experience they need and a tentative schedule for completion of these requirements.

RESPONSES:

See Appendix F for the staff not yet qualified.

6. Identify any changes to your qualification and training procedure that occurred during the review period.

RESPONSES:

No changes for Complex Materials Decommissioning, Sealed Source and Device, and Region IV.

Staff in uranium recovery licensing use Inspection Manual Chapter (IMC) 1248, Appendix I. This document is entitled "Training Requirements and Qualification Journal for Uranium Recovery Project Managers/Technical Reviewers" and is available at: <https://www.nrc.gov/reading-rm/doc-collections/insp-manual/manual-chapter/index.html>

IMC 1248, Appendix I was revised in July 2019 to include three new required courses: (1) National Environmental Policy Act for the Uninitiated; (2) MARSAME: Multi-Agency Radiation Survey and Assessment of Materials and Equipment (H-120); and (3) MILDOS Area Dose Assessment Code (Argonne National Laboratory). Additionally, the July 2019 revision included references to NUREG 1620 - Standard Review Plan for the Review of a Reclamation Plan for Mill Tailings Sites Under Title II of the Uranium Mill Tailings Radiation Control Act of 1978 and NUREG 1623 – Design of Erosion Protection for Long-Term Stabilization.

Low-Level Waste uses NMSS Policy and Procedure #1-13 that is based off the respective IMCs on June 7, 2019. The Policy and Procedure facilitates office ownership of the qualification process outside of the Inspection program. The Low-Level Waste Project Manager Qualification Journal is available in Agencywide Documents Access and Management System (ADAMS at ML16139A402).

Region I uses the IMC 1248 guidance for qualification and training requirements. In addition, Region I implements and maintains Region I, Division of Nuclear Materials Safety (DNMS) Directive 0400/3, "DNMS Training and Qualification Program." Revision 3 was implemented on March 3, 2021, to include the most recent references and guidance. Also, Attachment 3 of DNMS Directive 0400/3, "Licensing Signature Authority – Level I & II Groups" has been updated to better reflect the program codes contained within the Web-Based Licensing system.

Region III has adopted IMC 1248 for the qualification of Materials Inspectors (Appendix B), Decommissioning Inspectors (Appendix F), Decommissioning Reviewers (Appendix G), and Licensing Reviewers (Appendix A).

7. Please identify the technical staff that left your radioactive materials program during the review period and indicate the date they left.

RESPONSE:

See Appendix G for staff departures.

8. List any vacant positions in your radioactive materials program, the length of time each position has been vacant, and a brief summary of efforts to fill the vacancy.

RESPONSES:

No vacancies in the licensing portion of the Complex Materials Decommissioning, Sealed Source and Device, and Uranium Recovery.

Low-Level Waste currently has 3 vacancies. Management is planning on utilizing programs such as Nuclear Regulator Apprenticeship Network (NRAN) Program and Co-Op and Summer Intern programs as possible replacement candidates.

Region I has 1 vacancy in the Commercial, Industrial, R&D, and Academic Branch. Two Vacancies in the Commercial, Industrial, R&D, and Academic Branch. One vacancy for Division support. Additionally, by applying the NRC's Strategic Workforce Planning tool, Region I management decided to "hire ahead" 4 positions in the Medical and Licensing Assistance Branch in anticipation of future losses within the division. These positions will allow new staff to complete a substantial portion of the qualification program before the anticipated retirements occur. Management is currently reviewing applications and conducting interviews for the positions. Based on current budget predictions for fiscal years 2022 and 2023, division staffing levels will remain approximately the same as current staffing levels. Division management continues to assess budget and resource needs and make proactive hiring decisions.

Region III has 3 vacancies in DNMS at the time of the review. One vacancy in the Materials Inspection Branch (MIB), one vacancy in the Materials Control ISFSI and Decommissioning Branch (MCID), and one vacancy in the Materials Licensing Branch (MLB). MCID Health Physicist – MCID has 1 FTE vacancy that has been vacant since January 2021. MCID posted a solicitation of interest (SOI) agency-wide and did not hire anybody out of that SOI. MCID posted an SOI for external hires that closed in April 2021. MCID has interviewed for the position and expects to make a selection soon. MIB Health

Physicist – The 1 FTE vacancy in MIB has been vacant since the end of March 2021 due to the retirement of Keven Null. MIB intends to post an SOI agency-wide to fill the one vacant position in the branch. MLB Health Physicist – 1 FTE vacancy that has been vacant since March 2021– MLB posted a SOI agency-wide and did not hire anybody out of that SOI. MLB posted for an external hire and is reviewing the applicants.

Region IV has 1 GG-13 license reviewer vacancy in Materials Licensing Decommissioning Branch as of April 2021. An Agency-wide solicitation of interest was posted and applicants are currently under review. The MIB does not currently have any vacancies, however, the Division will review the need for additional staff as needed for attrition.

9. For Agreement States, does your program have an oversight board or committee which provides direction to the program and is composed of licensees and/or members of the public? If so, please describe the procedures used to avoid any potential conflict of interest.

RESPONSE:

Not applicable

II. Status of Materials Inspection Program

10. Please identify individual licensees or categories of licensees the State is inspecting less frequently than called for in NRC's Inspection Manual Chapter (IMC) 2800 and explain the reason for the difference. The list only needs to include the following information: license category or licensee name and license number, your inspection interval, and rationale for the difference.

RESPONSE:

Not applicable for Complex Materials Decommissioning, Sealed Source and Device, Uranium Recovery, Region I, Region III, and Region IV.

Low-Level Waste disposal facilities are located in Agreement States, as such the respective Agreement States perform inspection activities. For the radium program, all 58 non-military sites were dispositioned by 2019, and dates of site visits and scoping surveys are provided as part of the page on letters to site owners on NRC's public webpage for radium (<https://www.nrc.gov/materials/radium/non-military-radium-letters.html>). None of the radium sites, neither military nor non-military, are licensed per Commission direction and, therefore, IMC 2800 does not specify a priority for inspecting them. However, the sites are generally similar to decommissioning sites and inspected or observed on an as needed basis.

11. Please provide the number of routine inspections of Priority 1, 2, and 3 licensees, as defined in IMC 2800 and the number of initial inspections that were completed during each year of the review period.

RESPONSES:

Not applicable for Complex Materials Decommissioning, Sealed Source and Device, and Uranium Recovery. See Appendix H for inspection priority.

12. Please submit a table, or a computer printout, that identifies inspections of Priority 1, 2, and 3 licensees and initial inspections that were conducted overdue. At a minimum, the list should include the following information for each inspection that was conducted overdue during the review period:

- (1) Licensee Name
- (2) License Number
- (3) Priority (IMC 2800)
- (4) Last inspection date or license issuance date, if initial inspection
- (5) Date Due
- (6) Date Performed
- (7) Amount of Time Overdue
- (8) Date inspection findings issued

RESPONSE:

Not applicable for Complex Materials Decommissioning, Sealed Source and Device, and Uranium Recovery.

See Appendix I for overdue inspections.

13. Please submit a table or computer printout that identifies any Priority 1, 2, and 3 licensees and initial inspections that are currently overdue, per IMC 2800. At a minimum, the list should include the same information for each overdue inspection provided for Question 12 plus your action plan for completing the inspection. Also include your plan for completing the overdue inspections.

RESPONSE:

Not applicable for Complex Materials Decommissioning, Sealed Source and Device, and Uranium Recovery.

No inspections currently overdue for the Regions.

Note: For the non-military radium program, none of the sites are licensed per Commission direction and, therefore, IMC 2800 does not specify a priority for inspecting them. Thus, none are overdue. However, the sites are generally similar to decommissioning sites and inspected or observed on an as needed basis.

14. Please provide the number of reciprocity licensees that were candidates for inspection per year as described in IMC 1220 and indicate the number of reciprocity inspections of candidate licensees that were completed each year during the review period.

RESPONSE:

Not applicable for Complex Materials Decommissioning, Sealed Source and Device, and Uranium Recovery.

See Appendix J for number of reciprocity licensees.

III. Technical Quality of Inspections

15. What, if any, changes were made to your written inspection procedures during the reporting period?

RESPONSE:

Not applicable for Complex Materials Decommissioning, Sealed Source and Device, and Uranium Recovery.

The Regions conduct its inspection program in accordance with inspection procedures and guidance developed by NMSS, including revisions made during the reporting period. The guidance provided in current NRC Inspection Manual Chapter 2800 is primarily used. IMC 2800 was last updated in March 2020.

16. Prepare a table showing the number and types of supervisory accompaniments made during the review period. Include:

RESPONSE:

Not applicable for Complex Materials Decommissioning, Sealed Source and Device, and Uranium Recovery.
See Appendix K for accompaniments.

17. Describe or provide an update on your instrumentation, methods of calibration, and laboratory capabilities. Are all instruments properly calibrated at the present time? Were there sufficient calibrated instruments available throughout the review period?

RESPONSE:

Not applicable for Complex Materials Decommissioning, Sealed Source and Device, and Uranium Recovery.

Region I has an ample supply of calibrated instruments available to inspectors for use during inspections. Instruments are sent to a qualified calibration company via an annual contract. Instrument and detector types capable of detecting alpha, beta, gamma and neutron radiation, include: ion chambers (6) , pancake probes (7), Sodium-Iodide scintillation probes (12), side window Geiger-Muellers (4), end window Geiger-Muellers (4), alpha detectors (3), microR meters (10), personal alarming rate meters (6), a neutron meter, and an isotope identifier. Region I does not have in-house laboratory capabilities. Samples collected in the field are sent to Oak Ridge Institute for Science and Education for analysis.

The Region III maintains a variety of instruments from simple hand-held dose rate instruments to more complex instruments used for decommissioning purposes which consist of ion chamber, Geiger-Mueller, scintillation, gas flow proportional detectors, etc. In addition to the Region III's internal instruments, Region III uses, as necessary, its contractor the Oak Ridge Institute for Science and Education (ORISE) to perform confirmatory surveys at decommissioning

licensee facilities. For soil, water, and/or vegetation samples, the region uses the ORISE laboratory for sample analysis. The instrument program is maintained in accordance with Regional Procedure 10.131, "Protection of Region III Employees Against Ionizing Radiation." Region III does not maintain any calibration or laboratory capabilities. Region III uses a vendor (Laurus) to calibrate and repair its instruments. All calibrations are performed with NIST traceable sources. Instruments are calibrated at least annually, or prior to use, and any instruments that are out of calibration are stored in a labeled cabinet or have a tag attached to them indicating that they are out of calibration. Calibration due dates are tracked by the Radiation Safety Officer (RSO) and instruments are sent for calibration typically once or twice per quarter. Region III maintains a sufficient inventory of survey instruments to ensure that inspection activities are not affected by instrument exchanges for calibration. Instruments not used on a routine basis are calibrated as needed. Region III provided a table for their survey instrument capabilities. See Appendix L.

The Region IV office maintains a variety of instruments to accommodate the different needs of the inspectors. The instrumentation is capable of measuring ambient exposure rates and surface contamination levels. Region IV maintains instrumentation that can measure both alpha and beta-gamma surface radioactivity levels. Although rarely used, Region IV also maintains a FIDLER for measurement of low energy radiation (Am-214, depleted uranium) in outdoor settings. The instrumentation is calibrated annually, in accordance with the Regional Radiation Safety Manual (a Regional Office Policy Guide), by offsite contractors. Region IV uses three different contractors based on the level of complexity and the manufacturer of the instrument. Region IV also maintains some instrumentation in storage that is no longer calibrated. These meters are occasionally used for spare parts, or could be returned to service, if needed. Region IV maintains several check and calibration sources for functional checks and for efficiency calculations.

Region IV maintains a logbook of instrument calibration due dates and issuance of meters to the inspectors. The location of any meter at any time can be verified through the logbook. When an instrument is coming due for calibration, the laboratory manager will issue emails to recall the instruments for recalibration. Region IV no longer maintains the ability to measure neutron exposure rates. Any inspector requests for neutron exposure measurements would have to be conducted by the licensee at the request of the inspector. A common example would be during canister loading operations at nuclear power plants. Finally, Region IV maintains sampling equipment for collection of swipe samples and environmental samples. Region IV no longer maintains the capability to analyze swipe, soil, or water samples. These samples are submitted to a contracted Department of Energy (DOE) laboratory in Idaho for analysis. Chain of custody forms are used to maintain control of the samples.

IV. Technical Quality of Licensing Actions

18. How many specific radioactive material licenses does your program regulate at this time?

RESPONSE:

For Complex Materials Decommissioning and Uranium Recovery see Appendix M for specific radioactive material licenses.

For Sealed Source and Device there are 157 active sealed source and device registration certificates. See Appendix N for specific radioactive material licenses.

As of March 24, 2021, Region I regulates 697 specific radioactive materials licenses. As of February 17, 2021, Region III regulates 872 active licenses. The total includes one Master Materials license, 17 priority 1 licenses, 135 Priority 2 licenses, 143 priority 3 licenses, and 576 Priority 5 licenses. As of April 20, 2021, according to Web-Based Licensing Report 4, Region IV regulates 509 total licensees which includes one Master Materials License.

The Low-Level Waste and Projects Branch (LLWPB) is responsible for the NRC's radium program. For the radium program, there are no specific radioactive material licenses currently. Instead, per Commission direction, the NRC staff has pursued graded approaches for involvement at the various military and non-military sites.

For the military radium program, the Commission, in [SRM-SECY-14-0082](#), directed the staff to establish, through a memorandum of understanding, a consultation process for sites with unlicensed Atomic Energy Act material being cleaned up by the U.S. Department of Defense (DOD) per its responsibilities under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Defense Environmental Restoration Program (DERP). The purpose of the consultation process is to ensure DOD's CERCLA/DERP remedies also meet NRC's release criteria specified in 10 CFR Part 20, namely 10 CFR 20.1402 for unrestricted release, and 10 CFR 20.1403(b) for restricted release. Two approaches are employed for the consultation process depending on the level of oversight by the U.S. Environmental Protection Agency (EPA):

- For sites on the National Priorities List (NPL), EPA is the lead federal oversight authority and NRC, at these sites, stays-informed of the staff would take a limited involvement approach to stay informed and would rely on the CERCLA process and EPA regulatory oversight. The staff maintains a general understanding of the progress and views on important radiological remediation issues as well as the completed and planned activities of each organization. This approach does not involve licensing and accordingly the staff does not conduct licensing reviews. However, the NRC reserves the option of providing comments to EPA on the military remediation, if necessary, to justify continued reliance on the CERCLA process and EPA oversight.
- For sites where there is no federal oversight conducted by EPA (e.g., sites not listed on the NPL), the NRC would monitor DOD's cleanup. Monitoring uses a graded approach to prioritize these sites and conduct the appropriate type and amount of monitoring activities for each site based on its priority. This approach does not involve licensing, however, the purpose of this monitoring would be to provide consistent federal oversight to confirm that DOD's remediation of radioactive material using the CERCLA process would result in an outcome that is protective of public health and safety and the environment. To accomplish this, NRC monitoring determines that NRC's 25 mrem/yr dose criterion in 20.1402 is not exceeded for sites planning for unrestricted release. For sites planning to leave contamination on-site with restrictions on future land use and/or

engineered controls, NRC monitoring would determine that the 25 mrem/yr dose criterion in 20.1403 (b) with institutional controls in place is not exceeded and that the plans for 5-year reviews required by CERCLA and their implementation are acceptable to ensure long-term protection.

During the review period, the number of DOD sites that NRC has been involved at has varied as follows: 2021: 21 sites; 2020: 17 sites; and 2019: 10 sites; NRC began issuing State and Tribal Programs (STP) letters to communicate with the States on which DOD sites it will be involved at: [STP-21-016](#) and [STP-20-025](#). Listings of the specific DOD sites can be found in those letters.

For the non-military radium program, the Commission directed staff in [SRM-SECY-17-0026](#) to (1) monitor under a memorandum of understanding with the EPA (should an MOU become necessary) and, as appropriate, separate site-specific agreements at sites undergoing remediation through relevant, existing, State and Federal programs and (2) use of a risk-informed, graded approach to either license, work cooperatively with site owners using a letter of forbearance, or not pursue any further action. During the review period, NRC revised its MOU with the National Park Service for involvement at NPS properties in New York undergoing cleanup for unlicensed AEA material, bringing the number of NPS sites with NRC involvement to three: Great Kills Park, Spring Creek Park, and Dead Horse Bay.

At the remaining non-military radium sites, NRC staff completed dispositioning all 47 original sites with historical radium contamination as well as 11 additional sites which were identified in subsequent efforts in Michigan and Connecticut. Of the 58 sites, 5 were determined to require cleanup and 1 additional site was found to exceed the number of gauges permitted under a general license. The five sites are the former Benrus, New Haven, Sessions, Seth Thomas, and Waterbury clock factories in Connecticut. The site with excess gauges is the Air Zoo Museum in Michigan. The NRC staff issued letters of forbearance after receiving commitments by site owners to implement voluntary controls and cleanup their respective sites. The Benrus and Sessions sites have been cleaned up and closed out by NRC staff in 2019 and 2020, respectively, and the Air Zoo site disposed of the excess to remain a general licensee in 2021. The New Haven site anticipates completing cleanup later in 2021. Two of the remaining sites, Waterbury and Seth Thomas, have submitted cleanup plans. Waterbury also has another portion of its site that is being evaluated by the EPA for inclusion on the NPL.

19. Please identify any major, unusual, or complex licenses which were issued, received a major amendment, were terminated, decommissioned, submitted a bankruptcy notification or renewed in this period.

RESPONSE:

For Complex Materials Decommissioning, Uranium Recovery, and the Regions, see Appendix O for major, unusual, or complex licenses

In addition to the case work, the NRC staff completed the following significant actions related to Sealed Source and Devices during the review period. Two Sealed Source and Device workshops were conducted to train Agreement

State and NRC staff to conduct Sealed Source and Device safety evaluations. In addition to the workshops, NRC staff provided a focused refresher training to staff from the State of North Carolina. Experienced Sealed Source and Device reviewers from the NRC and the Agreement States presented the lectures at the workshops. Agreement State staff provided strong support and participation in presenting lectures at each of the Workshops. Sealed Source and Device Cases:

1. SSD 15-04 (Theragenics), this was for a new device that allowed for the standing of seeds at medical facilities.
2. SSD 15-23 (Eckert & Ziegler), this was for a prostate seed, that the applicant had to demonstrate alternative prototype testing.
3. SSD 15-40 & SSD 16-18 (CESCO), this was a device that was originally registered as a generally licensed device California. The applicant applied to the NRC to request it be registered as an exempt product.
4. SSD 17-27 (Hopewell Designs, Inc.), we have received several Sealed Source and Device applications from this applicant for different types of calibrator and irradiators.
5. SSD 19-02 and 19-03 (Varian), this was for a new HDR and sealed source.

Sealed Source and Device Workshops:

1. Raleigh, NC, with 25 Agreement State attendees and 1 NRC trainee participating, June 19-23, 2017;
2. Webinar with 31 Agreement State and 4 NRC trainees participating, August 5 – August 13, 2020.

Special Training:

3. Rockville, MD, 4 staff from North Carolina, September 10-12, 2018.

The NRC staff supported the development of the first Safety Evaluation Report for the NorthStar Medical Radioisotopes LLC, RadioGenix™ System Model 1.0a on March 15, 2018. The NRC staff used the analytical techniques in NUREG-1556, Volume 3, Revision 2. It should be noted that while the techniques from Volume 3 were used, the system did not meet the definition of a device.

As part of technical assistance request from the State of North Carolina, the staff performed the concurrence evaluation for CivaTech Oncology, Inc. for the CivaDerm product (SSD 20-17 Civatech Oncology).

We served as IMPEP team members for the review of the Sealed Source and Device program in five Agreement States: Florida in 2015; Maine in 2015; North Carolina in 2018; Florida in 2019; Maine in 2019, New Hampshire 2021 and Tennessee 2021.

In September 2015, the staff completed the revision of the Sealed Source and Device guidance in NUREG-1556, Volume 3. Agreement State Staff supported the revision.

The NRC team served as Sealed Source and Device resource on a nationwide basis through several interactions/week (50 cases in FY 2015, 37 cases in FY 2016, 44 cases in FY 2017, 44 cases in FY 2018, 40 cases in FY 2019, 36 cases in FY 2020, 15 cases in FY 2021): responded to e-mail

questions, expressed opinions that the SSD Team prepared to outside inquiries. Specifically,

- inquiries from A/S Sealed Source and Device reviewers
- licensee inquiries (held public meetings, responded to emails, responded to telephone calls)
- responded to questions from the NRC Regions

20. Discuss any variances in licensing policies and procedures or exemptions from the regulations granted during the review period.

RESPONSE:

Complex Materials Decommissioning has not issued any exemptions from the regulations during the review period.

For Sealed Source and Device, Uranium Recovery, Low-Level Waste, and the Regions see Appendix P for variances and exemptions.

21. What, if any, change were made in your written licensing procedures (new procedures, updates, policy memoranda, etc.) during the reporting period?

RESPONSE:

See Appendix Q for procedures

Region IV utilizes the guidance provided in the NUREG-1556 series and the information provided on the Materials Licensees Toolkits on the NRC website.

A memorandum was issued that addressed exemptions to regulations contained in Title 10 of the *Code of Federal Regulations* Parts 30 and 34 or license conditions that licensees requested due to the public health emergency caused by the Coronavirus Disease 2019 (COVID-19). The ADAMS Accession number is ML20108E940.

22. Identify by licensee name and license number any renewal applications that have been pending for one year or more. Please indicate why these reviews have been delayed and describe your action plan to reduce the backlog.

RESPONSE:

Not applicable for Complex Materials Decommissioning, Sealed Source and Device, Low-Level Waste, and Region IV.

Region I does not have any renewals that exceeded 365 days.

Uranium Recovery has one license renewal application that has been pending for more than one year. A set of unique circumstances exists for this license. Uranium Recovery

issued Source Material License SUA-1580 to Hydro Resources, Inc. (HRI) in January 1998 for uranium production at the Crownpoint Uranium Project using the in situ recovery method. After the initial license was issued in 1998, the NRC's licensing decision was subject to a lengthy NRC Atomic Safety and Licensing Board review, Commission review, and Federal Court review. All legal reviews were completed in November 2010. In August 2002, during the course of the legal reviews, HRI requested renewal of license SUA-1580. The application was deemed timely filed. In March 2013, HRI submitted an updated Environmental Report (ER) and Consolidated Operations Plan (COP), revision 3.0, to the NRC in support of its request for license renewal. In February 2014, HRI submitted a letter indicating that it was negotiations with the Navajo Nation and would provide updates to the ER and COP by June 2014. On February 5, 2014, and September 16, 2014, HRI requested additional time to complete its discussions with the Navajo Nation Council prior to submitting a revised license renewal application. On November 13, 2014, the NRC staff placed its review of the license renewal application in abeyance until further notice. In April, 2018, the licensee requested that the name on the license be changed to NuFuels, Inc. No construction or operation has occurred under the NuFuels, Inc. license for the Crownpoint Uranium Project. When NuFuels decides to proceed with the license renewal process, the staff will resume its review of the license renewal application.

Region III's Cases pending for one year or more:

Licensee	License No.	Control No.	Reviewer	1 Year Date
Michigan Mobile PET Imaging, LLC	21-32786-01	618177	Kennedy	3/4/2021
Michigan Mobile PET Imaging, LLC	21-32787-01	618191	Kennedy	3/4/2021
Universal Medical Resources, Inc.	24-32189-01	618192	Casey	3/4/2021
Western Missouri Medical Center	24-32222-01	618622	Kennedy	4/16/21
Excelsior Springs Medical Center	24-32234-01	618702	Kennedy	4/22/21

The license renewal applications listed above were delayed due to the COVID-19 Public Health Emergency. Both Michigan Mobile PET Imaging, LLC renewal applications are expected to be issued the week of 05/10/2021.

V. Technical Quality of Incident and Allegation Activities

23. For Agreement States, please provide a list of any reportable incidents not previously submitted to NRC (See Procedure SA-300, *Reporting Material Events*, for additional guidance, OMB clearance number 3150-0178). The list should be in the following format:

RESPONSE:

Not applicable for Complex Materials Decommissioning, Low-Level Waste, and the Regions.

The list of allegations that the Sealed Source and Device staff was involved is available in the files of the NRC Headquarters Allegation Team. The Sealed Source and Device staff routinely supports allegations involving the public sale

sites such as eBay and Amazon or for sales that involve licensed materials or licensing requirements. We responded to numerous eBay and Amazon sales during the review period. The Sealed Source and Device team receives and reviews the daily events report and determines whether the event is an Sealed Source and Device generic issue. The determination is based on the criteria in MD 6.4, "Generic Issues Program." The team leader maintains a log of the events that were reviewed.

The Sealed Source and Device team also uses NMSS Policy and Procedure 2-6, Rev. 1: "Overview of Generic Communications Coordination and Processing." The Sealed Source and Device team performed an evaluation of events reported involving Electron Capture Devices (ECD) designed for use in Gas Chromatographs (GC) from 1991 to 2015. As a result staff suggested a change in the expected useful life of ECDs to Agilent Technologies, this change was made in 2015 (ML15098A070). The Sealed Source and Device team identified, as an outcome of an event, that the issues regarding a missing lock washer in BSI Instruments, Inc. fixed gauge Model LB 7442-D could result in the source capsule coming loose due to vibration of the source, it was determined that this constituted a generic issue. As a result, staff issued Information Notice 2016-12, "Potential Absence of Required Lock Washers in BSI Instruments, Inc. LB 7400 Series Fixed Gauges," dated October 20, 2016.

An event in Texas that involved a sealed source being removed from a fixed gauge was reviewed by NRC staff to determine whether there was a generic implication involving the manufacturing or design of the gauge. In response, as part of its review the Sealed Source and Device team issued a memo dated August 3, 2020 (ML20206L187) to the NMSS Office Director regarding the staff's review of the event.

An Nuclear Materials Events Database (NMED) search for the Uranium Recovery licensees during the review period yielded the following:

Licensee Name	License Number	Date of Incident	Reporting Date	Type of Incident	Associated Documents
Lost Creek ISR, LLC	SUA-1598	07/28/2018	07/28/2018	Radioactive Material Release	ML18211A630 ML18235A320
Uranium One USA, INC.	SUA-1341	08/01/2018	08/03/2018	Radioactive Material Release	ML18226A213
Uranium One USA, INC.	SUA-1341	08/06/2018	08/10/2018	Radioactive Material Release	ML18228A721

24. Identify any changes to your procedures for responding to incidents and allegations that occurred during the period of this review.

RESPONSE:

There have been no changes in procedures for responding to incidents and allegations in this review period for Complex Materials Decommissioning, Low-Level Waste, Sealed Source and Device, Uranium Recovery, Region I, and Region III.

Staff procedures for responding to incidents and allegations are found in Management Directive 8.8 Management of Allegations (available at <https://www.nrc.gov/reading-rm/doc-collections/management-directives/volumes/vol-8.html>). This document was most

recently updated January 29, 2016. Materials incident response is governed by Inspection Manual Chapter 2800, last revised on March 2, 2020.

Region IV has developed a "Desktop Guide for Materials Event Response Procedures" which serves as an abbreviated version of the Regional Office Policy Guide (ROPG) for Materials Event Response Procedures; for more detailed guidance on event response duties and responsibilities, please refer to ROPG 9007B.2 "Reactive Inspection and Licensee Event Report Guidance for DNMS Staff". In addition, response guidance can be found in a number of basic references, such as Manual Chapter 1301, Management Directive 8.3 and Management Directive 8.10.

C. NON-COMMON PERFORMANCE INDICATORS

I. Compatibility Requirements

Not Applicable for the NRC.

25. Please list all currently effective legislation that affects the radiation control program. Denote any legislation that was enacted or amended during the review period.
26. Are your regulations subject to a "Sunset" or equivalent law? If so, explain and include the next expiration date for your regulations.
27. Please review and verify that the information in the enclosed State Regulation Status (SRS) sheet is correct. For those regulations that have not been adopted by the State, explain why they were not adopted, and discuss actions being taken to adopt them. If legally binding requirements were used in lieu of regulations and they have not been reviewed by NRC for compatibility, please describe their use.
28. If you have not adopted all amendments within three years from the date of NRC rule promulgation, briefly describe your State's procedures for amending regulations in order to maintain compatibility with the NRC, showing the normal length of time anticipated to complete each step.

II. Sealed Source and Device (SS&D) Evaluation Program

29. Prepare a table listing new and amended (including transfers to inactive status) SS&D registrations of sources and devices issued during the review period.

RESPONSE:

Not Applicable for Complex Materials Decommissioning, Low-Level Waste, Uranium Recovery, and the NRC Regional Offices.

See Appendix N for Sealed Source and Device cases processed between December 8, 2014 and May 4, 2021.

30. Please include information on the following questions in Section A, as they apply to the SS&D Program:

Technical Staffing and Training - Questions 2-9
Technical Quality of Licensing Actions - Questions 18-22
Technical Quality of Incident and Allegation Activities - Questions 23-24

RESPONSE:

N/A

III. Low-level Radioactive Waste Disposal Program

31. Please include information on the following questions in Section A, as they apply to the Low-Level Radioactive Waste Disposal Program:

Technical Staffing and Training - Questions 2-9
Status of Materials Inspection Program - Questions 10-14
Technical Quality of Inspections - Questions 15-17
Technical Quality of Licensing Actions - Questions 18-22
Technical Quality of Incident and Allegation Activities - Questions 23-24

RESPONSE:

Not Applicable to the NRC.

IV. Uranium Recovery Program

32. Please include information on the following questions in Section A, as they apply to the Uranium Recovery Program:

Technical Staffing and Training - Questions 2-9
Status of Materials Inspection Program - Questions 10-14
Technical Quality of Inspections - Questions 15-17
Technical Quality of Licensing Actions - Questions 18-22
Technical Quality of Incident and Allegation Activities - Questions 23-24

RESPONSE:

Not Applicable for Complex Materials Decommissioning, Sealed Source and Device, Low-Level Waste, and Region I and III.

Responses for Uranium Recovery program in Region IV (inspection activities) and DUWP (licensing) have been incorporated into the responses above.

MATERIALS REQUESTED TO BE AVAILABLE FOR
THE ON-SITE PORTION OF AN IMPEP REVIEW

Please have the following information available for use by the IMPEP review team when they arrive at your office:

- List of open license cases, with date of original request, and dates of follow up actions.
- List of licenses terminated during review period.
- Copy of current log or other document used to track licensing actions.
- List of all licensing actions completed during the review period (sorted by license reviewer, if possible).
- Copy of current log or other document used to track inspections.
- List of all inspections completed during the review period (sorted by inspector, if possible).
- List of inspection frequencies by license type.
- List of all allegations occurring during the review period. Show whether the allegation is open or closed and whether it was referred by NRC.
- List of all licenses that your agency has imposed additional security requirements upon.

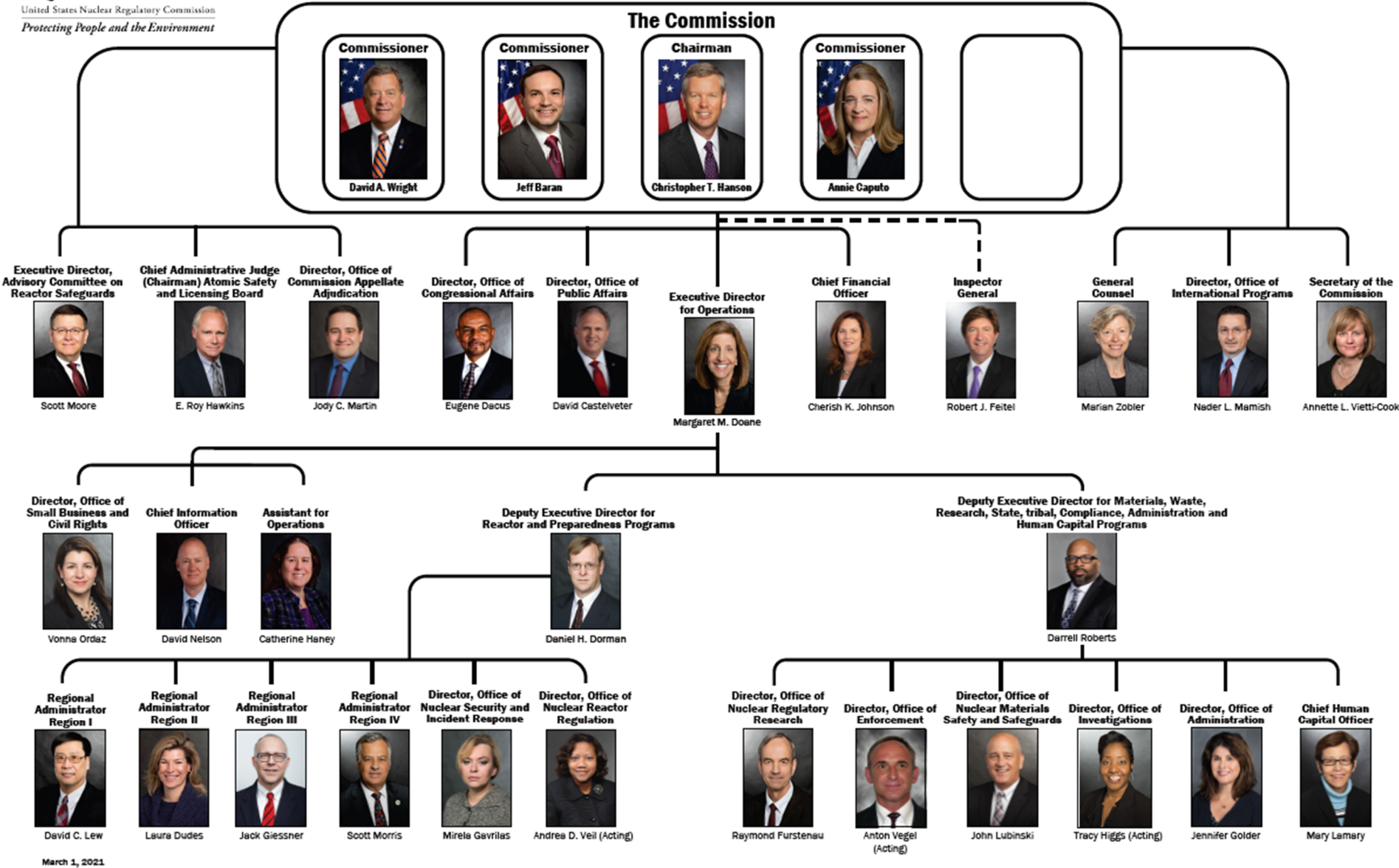
ALSO, PLEASE HAVE THE FOLLOWING DOCUMENTS AVAILABLE:

<ul style="list-style-type: none">• All State regulations	<ul style="list-style-type: none">• Documented training plan, if applicable
<ul style="list-style-type: none">• Statutes affecting the regulatory authority of the State program	<ul style="list-style-type: none">• Records of results of supervisory accompaniments of inspectors
<ul style="list-style-type: none">• Standard license conditions	<ul style="list-style-type: none">• Emergency plan and communications list
<ul style="list-style-type: none">• Technical procedures for licensing, model licenses, review guides	<ul style="list-style-type: none">• Procedures for investigating allegations
<ul style="list-style-type: none">• SS&D review procedures, guides, and standards	<ul style="list-style-type: none">• Procedures for investigating incidents
<ul style="list-style-type: none">• Instrument calibration records	<ul style="list-style-type: none">• Enforcement procedures, including procedures for escalated enforcement, severity levels, civil penalties (as applicable)
<ul style="list-style-type: none">• Inspection procedures and guides	<ul style="list-style-type: none">• Job descriptions
<ul style="list-style-type: none">• Inspection report forms	

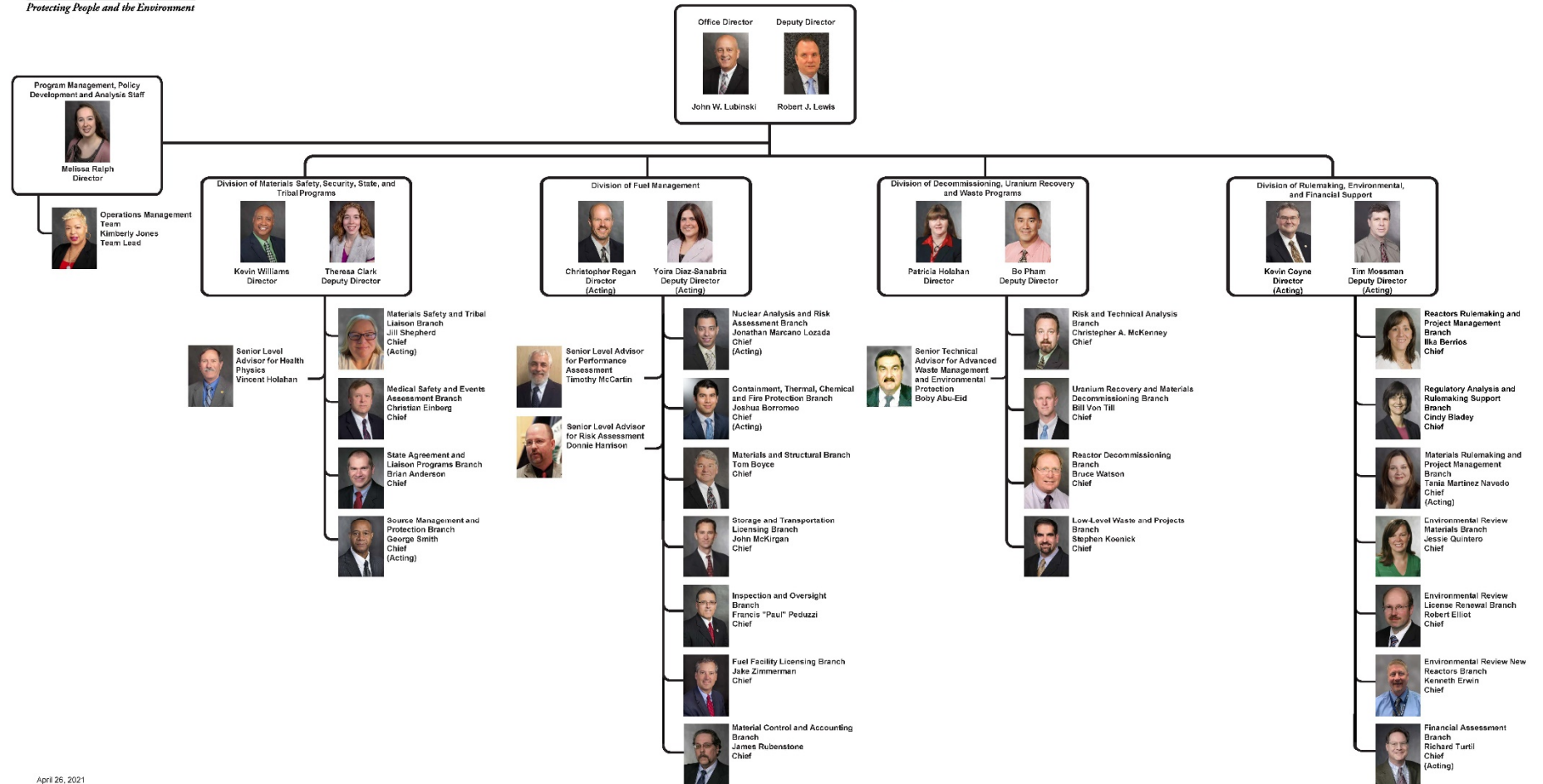
Appendix A: Organizational Charts



U.S. Nuclear Regulatory Commission

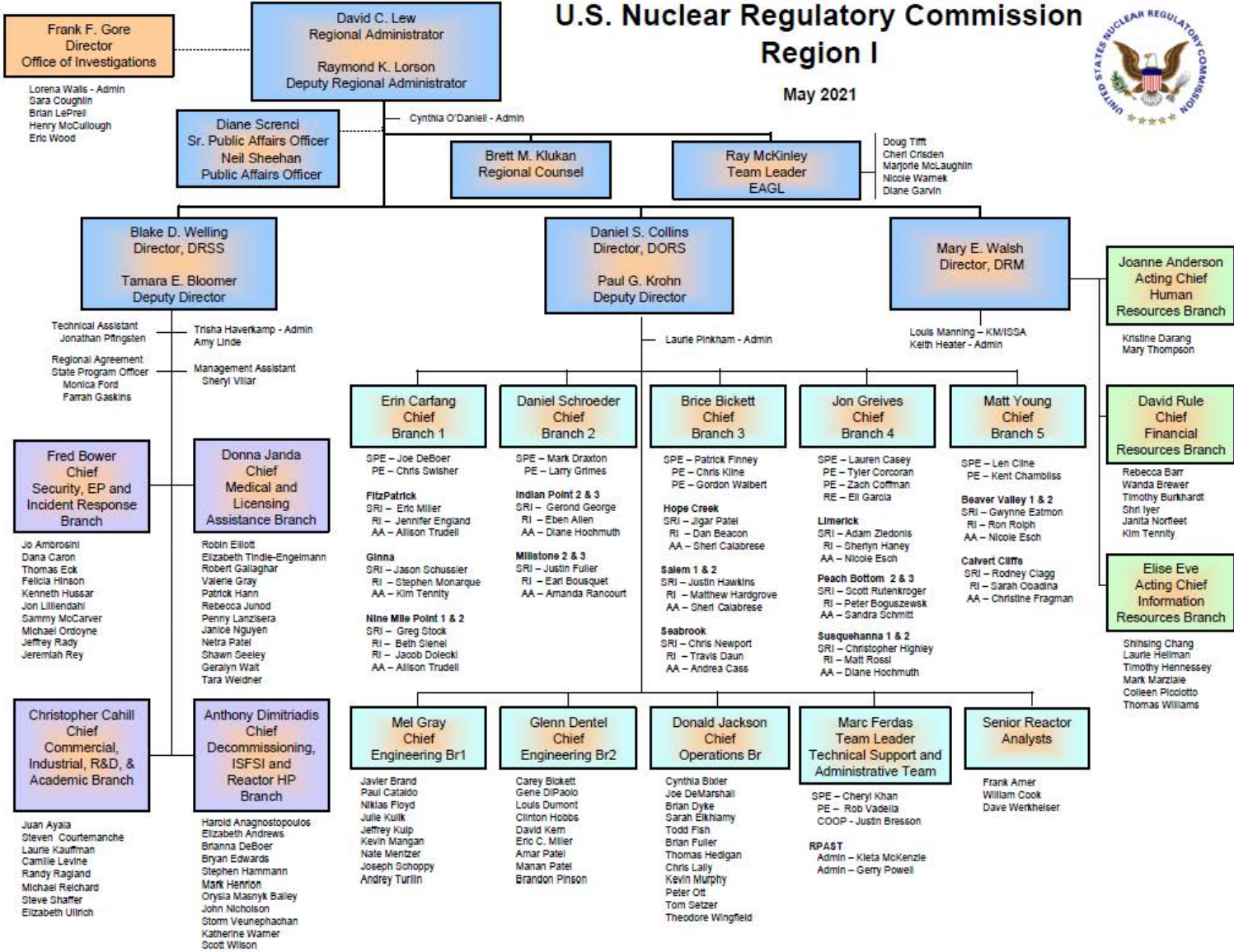


Office of Nuclear Material Safety and Safeguards



April 26, 2021

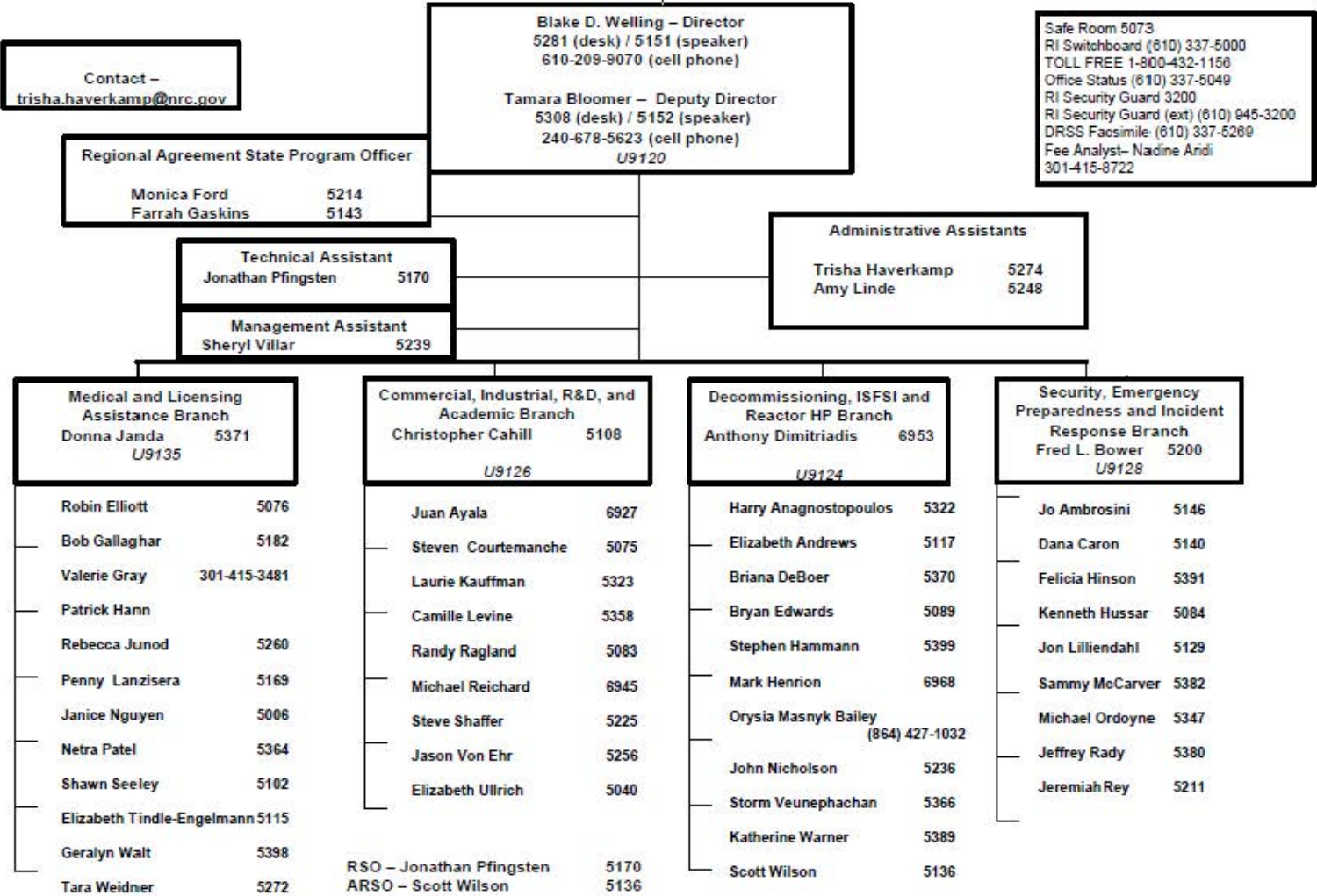
Appendix B: Regional Organizational Charts



DIVISION OF RADIOLOGICAL SAFETY AND SECURITY

Region I

05/03/2021



Region III/DNMS Organization Chart
(Effective June 1, 2021)

John B. Giessner
Regional Administrator

Mohammed Shuaibi
Deputy Regional Administrator

Paul Meyer
Special Agent in Charge

Allan R. Barker, RGLO - - Harral Logaras, RGLS

James S. Clay - - Carmen C. Olteanu

Viktoria Mitlying
Public Affairs Officer

Shelbie R. Lewman
Regional Counsel

Prema S. Chandrathil
Public Affairs Staff

Jamnes L. Cameron
Enforcement/Investigations Officer (TL)

- Sarah Bakhsh
- James K. Heller
- Kenneth L. Lambert
- Paul R. Pelke

David L. Pelton, Director
Division of Nuclear Materials Safety

Joseph L. Nick, Deputy Director
Division of Nuclear Materials Safety

Darren W. Piccirillo, RSAO

Patrice A. Shaughnessy -
Bunna R. Te -

Robert J. Orlikowski, Branch Chief
Materials Licensing Branch

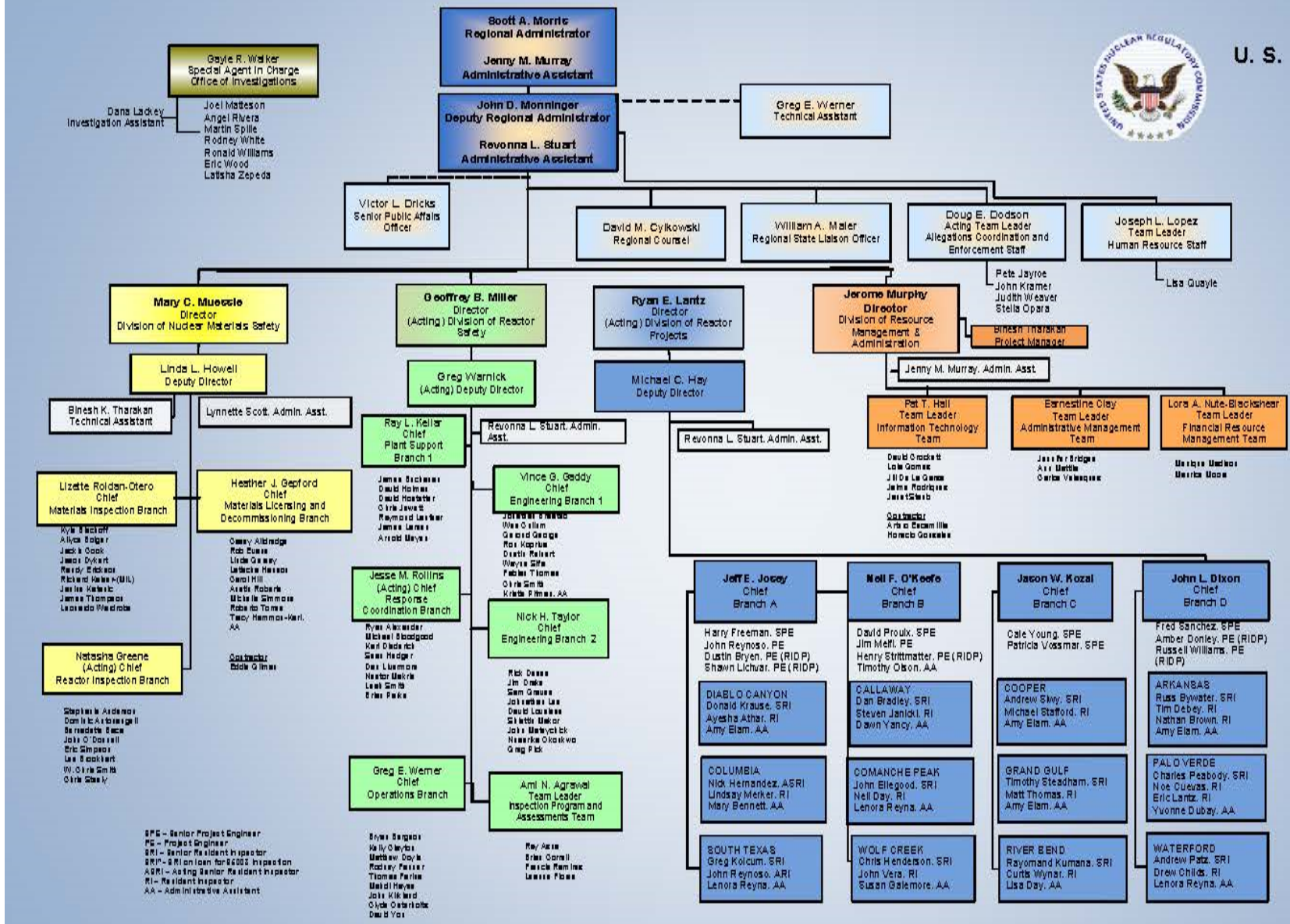
- Jason M. Kelly
- Colleen C. Casey
- Sara A. Forster
- Cassandra F. Frazier
- Bryan A. Parker
- Magdalena R Gryglak
- Laura B. Cender
- Frank P. Tran
- Erin J. Kennedy
- Tammy R. Tomczak
- Vacant

Michael A. Kunowski, Branch Chief
Materials Inspection Branch

- Luis A. Nieves Folch
- Ryan J. Craffey
- Robert G. Gattone
- Geoffrey M. Warren
- Jason D. Draper
- Deborah A. Piskura
- Dennis P. O'Dowd
- Zahid M. Sulaiman
- Vacant

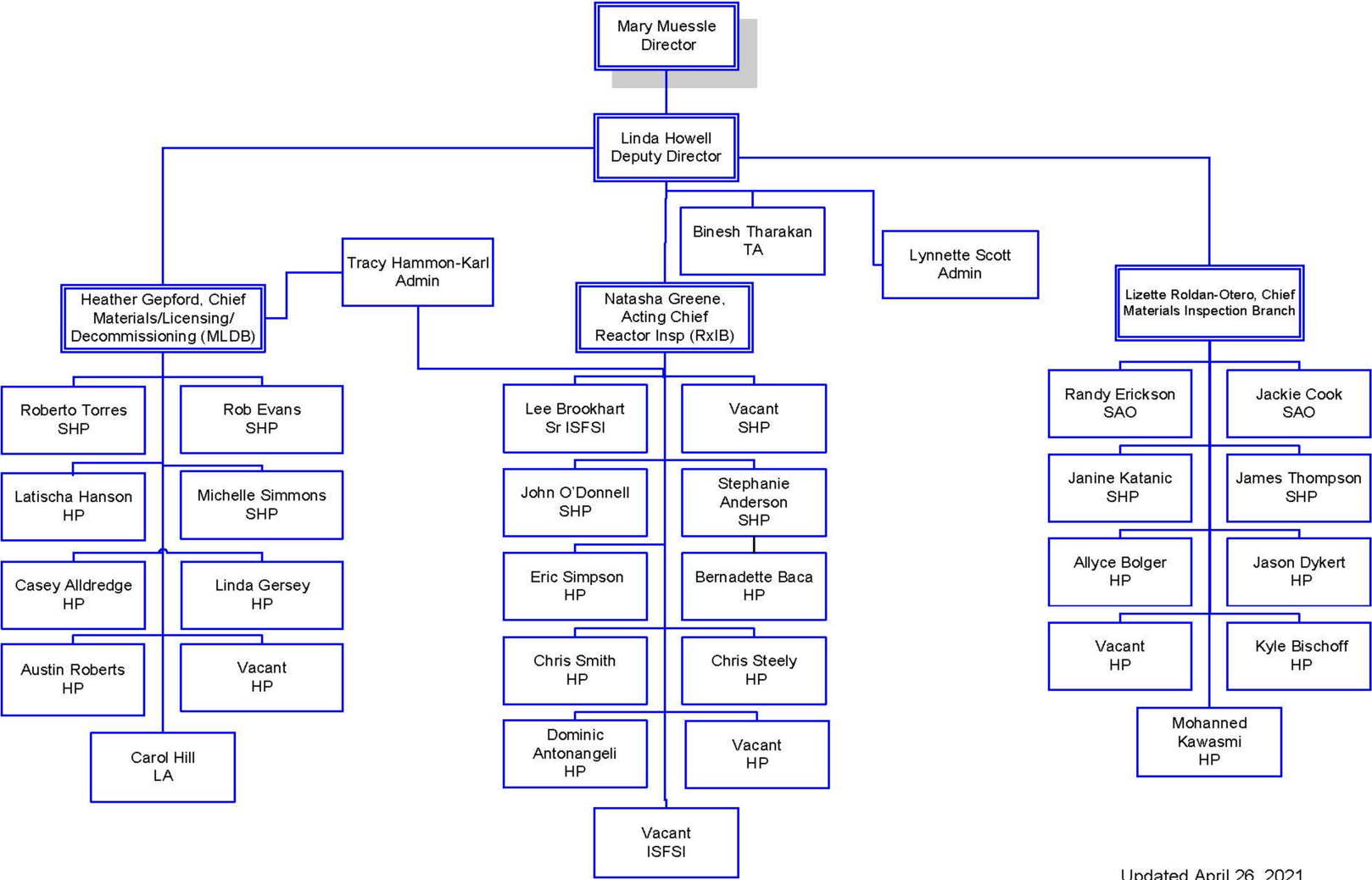
David E. Hills, Branch Chief
Mat Ctrl, ISFSI, & DC Branch

- Jennifer L. Dalzell
- Michael M. LaFranzo
- Peter J. Lee
- Rhex A. Edwards
- Bill C. Lin
- Vacant
- Vacant



SPE - Senior Project Engineer
PE - Project Engineer
SRI - Senior Resident Inspector
ASRI - SRI on loan for ASRI inspection
ASRI - Acting Senior Resident Inspector
RI - Resident Inspector
AA - Administrative Assistant

Region IV
Division of Nuclear Materials Safety (DNMS)



Updated April 26, 2021

Appendix C: Organizational Charts for Sealed Source and Device, Low-Level Radioactive Waste, and Uranium Recovery Programs

Division of Materials Safety, Security, State, and Tribal Programs (MSST)				
Mailstop T-5-B-60		Division Phone #: 415-3340/ FAX 415-5401		U4904
				ROOM
				PHONE
Williams	Kevin	Director	T-5B87	415-0321
Clark	Theresa	Deputy Director	T-5B85	415-1220
Holahan	E. Vincent	Senior Level Advisor	T-5B90	415-7510
Valentin-Rodriguez	Celimar	Technical Assistant	T-5A05	415-7124
Richie	Christine	Lead Administrative Assistant	T-5B75	415-7289
Sheetz	Ann	Administrative Assistant	T-5B86	287-3740
Source Management and Protection Branch (SMPB) U4909			ROOM	PHONE
Mossman	Tim	Branch Chief (RO 1/31/21- 4/24/21)	T-5C04	287-9100
Smith	George	Acting Branch Chief (RI 1/31/21- 4/24/21)	T-5A28	415-7201
Barrett	Matthew	Health Physicist	WAH	979 422-3800
Cervera	Margaret	Project Manager	T-5A14	415-5649
Davis	Gina	Project Manager	T-5A16	415-5776
Eusebio	Linda	Source Protection Analyst	T-5A34	415-5017
Giantelli	Adelaide	Senior Project Manager	T5-A18	415-3521
Goldberg	Paul	Project Manager	T-5A82	415-7842
Gray	Anita	Senior Health Physicist	T-5A09	415-7036
Hargelrode	Austin	Student Intern	WAH	803-220-7147
Lee	Willie	Health Physicist	T-5D54	415-8024
Lukes	Kim	Health Physicist	T-5A15	415-6701
Quinones*	Ernesto	Senior Project Manager (RO 1/17/21-7/17/21)	T5-A38	415-0271
State Agreement and Liaison Programs		Branch (SLPB) U4907	ROOM	PHONE
Anderson	Brian	Branch Chief	T5C02	415-9967
Beardsley	Michelle	Health Physicist	WAH	267-884-2305
Modes	Kathleen	Health Physicist	WAH	215-872-5804
Flannery	Cindy	Senior Health Physicist	T-5D39	415-0223
Hood	Tanya	Project Manager (RI 3/1/21 – 6/19/21)		415-1387
Johnson	Robert	Senior Project Manager	T-5B69	415-7314
Lynch	Jeffery	Project Manager	T-5D80	415-5041
Meyer	Karen	Agreement State Program Specialist	T-5D27	415-0113
O'Hara	Joseph	Project Manager	T-5A68	415-6854
Poy	Stephen	Mechanical Engineer	T-5A49	415-7135
Raphael	Elaine	Regulatory Review Specialist	T-5D24	415-0836
Roldan-Otero	Lizette	Health Physicist	R IV	817-200-1596
White	Duncan	Senior Health Physicist	T-5B39	415-2598
Medical Safety and Events Assessment		Branch (MSEB) U4906	ROOM	PHONE
Einberg	Chris	Branch Chief	T5-C08	415-5422
Ayoade	Maryann	Health Physicist	WAH	415-0862
Burgess	Michele	Senior Regional Coordinator	T-5D19	415-5868
Daibes	Said	Health Physicist	T-5A36	415-6863
Dimarco	Daniel	Health Physicist	T-5D17	415-3303
Dimmick	Lisa	Medical Team Leader	T-5C3	415-0694
Fisher	Jennifer	Health Physicist	(offsite)	415-1456
Gray	Valerie	General Engineer – NРАН Student (RI 09/27/20 -10/04/21)	TBD	415-3481
Howe	Donna-Beth	Senior Health Physicist	O 12 C 03	415-5441
Jamerson	Kellee	Environmental Scientist	T-5A17	415-7408
Lopas	Sarah	Project Manager	T-5D37	415-6360
Rivera-Capella	Gretchen	General Scientist	T-5A47	415-5944
Sida	Karen	General Engineer – NРАН Student (RI – 2/14/21 – 8/14/21)	TBD	415-3517
Sun	Robert	Project Manager	T-5B37	415-3421
Tapp	Katherine	Medical Physicist	T-5D36	415-0236
Materials Safety Licensing and Tribal Branch (MSTB) U4905			ROOM	PHONE
Shepherd	Jill	Acting Branch Chief (RI -3/29/21 – 5/28/21)	T-4A11	415-1230
Aribas-Colon	Maria	Project Manager (RO - 8/14/19-04/24/21)	T-5B44	415-6026
Brockington	Tamyra	Licensing Assistant	T 5 D 47	415-8714
Hammond	Michelle	Health Physicist	RIV	817-200-1127
Herrera	Tomas	Team Leader	T-5B61	415-7138
Hinton	Devonte'	General Engineer – NРАН Student (RI 03/29/21 -07/24/21)	TBD	415-3490
McMurtray	Anthony	Senior Project Manager	T-5A75	415-2746
Lowman	Don	Health Physicist	T-5D34	415-5452
Rakovan	Lance	Sr. Health Physicist	Telework	301-525-7280
Sepulveda	Lymari	Mechanical Engineer	T-5A24	415-5619
Talley	Sandra	Senior Liaison Project Manager	T 5 B 38	415-8059
Xu	Shirley	Health Physicist	T-5A07	415-7640
Key:		Updated: 4/7/2021		
RI = On Rotation in MSST				
RO = On Rotation out of MSST				

Division of Decommissioning, Uranium Recovery, and Waste Programs (DUWP)
Staff and Phone Listing

Directors Office (U4924)			
Name	Position/Title	Location	Ext.
Holahan, Trish	Director	T-5E16	7319
Pham, Bo	Deputy Director	T-5E14	7319
Abu-Eid, Rateb M	Sr. Advisor	T-5A88	5811
Conway, Kimberly A.	Technical Assistant	T-5A00	1335
Fream, Anne C.	Administrative Assistant	T-5Axx	0645

Low-Level Waste and Projects Branch (LLWPB) (U4926)			
Name	Position/Title	Location	Ext.
Koenick, Stephen S.	Branch Chief	T-5E10	6631
Dembek, Stephen	Sr. Project Manager	T-5A29	2342
Felsher, Harry D.	Sr. Project Manager	T-5A39	6559
Grossman, Christopher J.	Project Manager	WAH	0140
Heath, Maurice L.	Project Manager	T-5A08	3137
Maupin, Cardelia	Sr. Project Manager	T-5D58	4127
Miller, Alexandra L	Co-op		4127
Nelson, Robert K.	Health Physicist	T-5B46	0707
Whited, Aaron (Ryan)	Sr. Project Manager	T-5D28	1154
Wong, Melanie C.	Sr. Project Manager	T-5B58	2432
Yadav, Priya P.	Sr. Project Manager	WAH	6667
George, Mathews***	Project Manager		

Uranium Recovery and Materials Decommissioning Branch (URMDB) (U4927)			
Name	Position/Title	Location	Ext.
Von Till, Bill W.	Branch Chief	T-5E04	0598
Bolz, Brittany C.	Health Physicist	T-5A56	3285
Brown, David D.	Sr. Health Physicist	T-5B48	7677
Burrows, Ronald A.	Sr. Health Physicist	T-5A79	6443
Lancaster, Thomas R.	Hydrogeologist	T-5B36	6563
Linton, Ron C.	Sr Grdwater Hydro	T-5A58	7777
Mandeville, Douglas T.	Sr. Project Manager	T-5B54	0724
Orlando, Dominick A.	Sr. Project Manager	T-5A69	6749
Poston-Brown, Martha (Marti) Phone #817-200-1181 Region IV	Health Physicist	04 4102	
Saxton, John L.	Hydrogeologist	T-5B79	0697
Smith, James A.	Sr. Project Manager	T-5B88	6103

U.S. NUCLEAR REGULATORY COMMISSION
Division of Decommissioning, Uranium Recovery, and Waste Programs
Office of Nuclear Material Safety and Safeguards
11545 Rockville Pike

*Rotation into DUWP
**Rotation out of DUWP
***Detail out of DUWP
****Detail into DUWP

Appendix D: Staff Plans

Name		Position		Area of Effort		FTE %
Sealed Source and Device						
Tomas Herrera		Team Leader		Sealed Source and Device		FY15 – 41%
				FY 2015 includes work associated with the transfer of the Georgia SSD program back to the NRC		FY16 – 40%
						FY17 – 51%
						FY18 – 15%
						FY19 – 25%
						FY20 – 32%
						FY21 – 13%
Maria Arribas-Colon		Project Manager		Sealed Source and Device		FY15 – 56%
						FY16 – 15%
						FY17 – 6%
						FY18 – 5%
						FY19 – 10%
						FY20 – <1%
Lymari Sepulveda		Mechanical Engineer		Sealed Source and Device		FY15 – 86%
						FY16 – 81%
						FY17 – 75%
						FY18 – 60%
						FY19 – 47%
						FY20 – 51%
						FY21 – 22%
Celimar Valentin-Rodriguez		General Engineer		Sealed Source and Device		FY15 – 49%
						FY16 – 42%
						FY17 – 39%
						FY18 – 43%
						FY19 – 19%
						FY20 – 4%
Lance Rakovan		Project Manager		Sealed Source and Device		FY20 – 4%
						FY21 – 3%
FY15 – 2.33 FTE	FY16 – 1.47 FTE	FY17 – 1.70 FTE	FY18 – 1.23 FTE	FY 19 – 1.00 FTE	FY20 – 0.91	FY21 – 0.39 FTE as of 3/8/2021
Complex Materials Decommissioning						
Bill W. Von Till		Branch Chief		Complex Materials Decommissioning – Management		25%
Brittany C. Bolz		Health Physicist		Complex Materials Decommissioning – Health Physics		10%
David D. Brown		Sr. Health Physicist		Complex Materials Decommissioning – Health Physics		15%
Ronald A. Burrows		Sr. Health Physicist		Complex Materials Decommissioning – Health Physics		40%
Douglas T. Mandeville		Sr. Project Manager		Complex Materials Decommissioning – Project Management/ Engineering		25%

Name	Position	Area of Effort	FTE %
Dominick A. Orlando	Sr. Project Manager	Complex Materials Decommissioning – Project Management	25%
Martha Poston-Brown	Health Physicist	Complex Materials Decommissioning – Health Physics	25%
John L. Saxton	Hydrogeologist	Complex Materials Decommissioning – Hydrogeology	25%
James A. Smith	Sr. Project Manager	Complex Materials Decommissioning – Project Management	25%
Sarah Achten	Licensing Assistant	Complex Materials Decommissioning – Administration	10%
George Alexander	Risk Analyst	Complex Materials Decommissioning – Hydrogeology	40%
The FTE are a qualitative estimate made from observation of the percentage of time each individual spends on the complex material decommissioning program. These are not from a quantitative database. Complex Materials Decommissioning – 1.8 FTE total (0.8 total for FMRI and Cimarron)			
Low-Level Waste			
Stephen S. Koenick	Branch Chief	Low-Level Waste – Management	50%
Stephen Dembek	Sr. Project Manager	Low-Level Waste	100%
Harry D. Felsher	Sr. Project Manager	Waste incidental to reprocessing (WIR); NRC Orders to WCS & EnergySolutions regarding special nuclear material	50% 25%
Christopher J. Grossman	Project Manager	Radium	100%
Maurice L. Heath	Project Manager	WIR	40%
		Low-Level Waste	40 %
Cardelia Maupin	Sr. Project Manager	Low-Level Waste	100%
Alexandra L. Miller	Co-op	Low-Level Waste	10%
Aaron (Ryan) Whited	Sr. Project Manager	Disused sources	25%
Melanie C. Wong	Sr. Project Manager	Low-Level Waste	50%
Priya Yadav	Project Manager	WIR	30%
		Licensing	30%
		Low-Level Waste	40%
Mathews George	Project Manager	WIR	25%
		Low-Level Waste	25%
Adam Schwartzman	Risk Analyst	Low-Level Waste	
The FTE are a qualitative estimate made from observation of the percentage of time each individual spends on the low-level waste (LLW) and material decommissioning. For LLW, the main activities were in rulemaking, policy, and outreach. For decommissioning, the staff perform decommissioning of non-licensed sites through implementation of its radium program. These are not from a quantitative database. For LLW rulemaking, policy, and outreach ~ 5 FTE; for decommissioning ~ 1.5 FTE.			
Uranium Recovery			
Bill W. Von Till	Branch Chief	Uranium Recovery – Management	75%
Brittany C. Bolz	Health Physicist	Uranium Recovery – Health Physics	10%

Name	Position	Area of Effort	FTE %
David D. Brown	Sr. Health Physicist	Uranium Recovery – Health Physics	40%
Ronald A. Burrows	Sr. Health Physicist	Uranium Recovery – Health Physics	40%
Thomas R. Lancaster	Hydrogeologist	Uranium Recovery – Hydrogeology	50%
Ron C. Linton	Sr Groundwater Hydro	Uranium Recovery – Project Management	100%
Douglas T. Mandeville	Sr. Project Manager	Uranium Recovery – Project Management/ Engineering	50%
Dominick A. Orlando	Sr. Project Manager	Uranium Recovery – Project Management	10%
Martha Poston-Brown	Health Physicist	Uranium Recovery – Health Physics	50%
John L. Saxton	Hydrogeologist	Uranium Recovery – Hydrogeology	75%
James A. Smith	Sr. Project Manager	Uranium Recovery – Project Management	75%
Elise A. Striz	Hydrogeologist	Uranium Recovery – Hydrogeology	75%
Sarah Achten	Licensing Assistant	Uranium Recovery – Administration	40%
George Alexander	Risk Analyst	Uranium Recovery – Hydrogeology	50%
Ashley Waldron	Environmental Project Manager	Uranium Recovery – Environmental Review	50%
Christine Pineda	Environmental Project Manager	Uranium Recovery – Environmental Review	50%
The FTE are a qualitative estimate made from observation of the percentage of time each individual spends on the uranium recovery program. These are not from a quantitative database. Uranium recovery decommissioning – 4.5 FTE total. Uranium recovery licensing – 0.6 FTE total.			
Region I			
Blake Welling	Division Director	Region I – Management	100%
Tamara Bloomer	Deputy Division Director	Region I – Management	100%
Donna Janda	Branch Chief	Region I – Management	100%
Christopher Cahill	Branch Chief	Region I – Management	100%
Anthony Dimitriadis	Branch Chief	Region I – Management	67%
Monica Ford	State Agreement Officer	Region I – Agreement State Program	100%
Farrah Gaskins	State Agreement Officer	Region I – Agreement State Program	100%
Anne DeFrancisco	Technical Assistant	Region I – Radioactive Material Program	100%
Trisha Haverkamp	Administrative Assistant	Region I – Radioactive Material Program	100%
Amy Linde	Administrative Assistant	Region I – Radioactive Material Program	100%
Sheryl Villar	Management Assistant	Region I – Radioactive Material Program	100%
Robin Elliott	Health Physicist	Region I – Radioactive Material Program	100%

Name	Position	Area of Effort	FTE %
Elizabeth Tindle-Engelmann	Health Physicist	Region I – Radioactive Material Program	100%
Bob Gallagher	Health Physicist	Region I – Radioactive Material Program	100%
Patrick Hann	Health Physicist	Region I – Radioactive Material Program	100%
Rebecca Junod	Licensing Assistant	Region I – Radioactive Material Program	100%
Penny Lanzisera	Sr. Health Physicist	Region I – Radioactive Material Program	100%
Janice Nguyen	Sr. Health Physicist	Region I – Radioactive Material Program	100%
Netra Patel	Health Physicist	Region I – Radioactive Material Program	100%
Shawn Seeley	Health Physicist	Region I – Radioactive Material Program	100%
Geralyn Walt	Licensing Assistant	Region I – Radioactive Material Program	100%
Tara Weidner	Sr. Health Physicist	Region I – Radioactive Material Program	100%
Juan Ayala	Health Physicist	Region I – Radioactive Material Program	100%
Steven Courtemanche	Health Physicist	Region I – Radioactive Material Program	100%
Laurie Kauffman	Health Physicist	Region I – Radioactive Region I – Material Program	100%
Jonathan Pfungsten	Health Physicist	Region I – Radioactive Material Program	100%
Randy Ragland	Sr. Health Physicist	Region I –Radioactive Material Program	100%
Michael Reichard	Sr. Health Physicist	Region I – Radioactive Material Program	100%
Steve Shaffer	Sr. Health Physicist	Region I – Radioactive Material Program	100%
Elizabeth Ullrich	Sr. Health Physicist	Region I – Radioactive Material Program	100%
Jason VonEhr	Health Physicist	Region I – Radioactive Material Program	100%
Harold (Harry) Anagnostopoulos	Sr. Health Physicist	Region I – Radioactive Material Program; Reactors Program	25%
Elizabeth Andrews	Health Physicist	Region I – Radioactive Material Program; Reactors Program	67%
Briana DeBoer	Health Physicist	Region I – Radioactive Material Program	100%
Bruce Dionne	Reactor Health Physicist	Region I – Reactors Program	0%
Bryan Edwards	Health Physicist	Region I – Reactors Program	0%
Joseph Furia	Sr. Reactor Health Physicist	Region I – Reactors Program	0%

Name	Position	Area of Effort	FTE %
Stephen Hammann	Sr. Health Physicist	Region I – Radioactive Material Program	100%
Mark Henrion	Health Physicist	Region I – Radioactive Material Program; Reactors Program	50%
Orysia Masnyk Bailey	Health Physicist	Region I – Radioactive Material Program	100%
John Nicholson	Sr. Health Physicist	Region I – Radioactive Material Program	100%
Ronald Rolph	Reactor Health Physicist	Region I – Reactors Program	0%
Storm Veunephachan	Health Physicist	Region I – Reactors Program	0%
Katherine Warner	Sr. Health Physicist	Region I – Radioactive Material Program; Reactors Program	67%
Scott Wilson	Sr. Health Physicist	Region I – Reactors Program	0%
Overhead FTE Total 2.00, Direct FTE Total 2.30, Total FTE for Spent Fuel Storage and Transportation 4.30 Overhead FTE Total 6.00, Direct FTE Total 25.40, Total FTE for Nuclear Material User 31.40 Overhead FTE Total 0.00, Direct FTE Total 5.00, Total FTE for Decommissioning and Low-Level Waste 5.00			
Region III			
David L. Pelton	Director	Region III – Management	
Joseph L. Nick	Deputy Director	Region III – Management	
Darren W. Piccirillo	State Agreements Officer	Region III – Agreement State Program	
Patrice A. Shaughnessy	Administrative Assistant	Region III – Administrative	
Bunna R. Te	Administrative Assistant	Region III – Administrative	
David E. Hills	Branch Chief	Region III – Materials Decommissioning Branch	
Rhex A. Edwards	Sr. Health Physicist	Region III – Materials Decommissioning Branch	
Michael M. LaFranzo	Sr. Health Physicist	Region III – Materials Decommissioning Branch	
Peter J. Lee	Reactor Inspector - Decommissioning	Region III – Materials Decommissioning Branch	
Bill C. Lin	Reactor Inspector - Decommissioning	Region III – Materials Decommissioning Branch	
Jennifer L. Dalzell	Reactor Inspector - Decommissioning	Region III – Materials Decommissioning Branch	
Robert J. Orlikowski	Branch Chief	Region III – Materials Licensing Branch	
Cassandra F. Frazier	Sr. Health Physicist	Region III – Materials Licensing Branch	
Bryan A. Parker	Sr. Health Physicist	Region III – Materials Licensing Branch	
Jason M. Kelly	Health Physicist - Licensing	Region III – Materials Licensing Branch	
Colleen C. Casey	Health Physicist – Licensing	Region III – Materials Licensing Branch	

Name	Position	Area of Effort	FTE %
Sara A. Forster	Health Physicist - Licensing	Region III – Materials Licensing Branch	
Magdalena R. Gryglak	Health Physicist - Licensing	Region III – Materials Licensing Branch	
Laura B. Cender	Health Physicist - Licensing	Region III – Materials Licensing Branch	
Frank P. Tran	Health Physicist - Licensing	Region III – Materials Licensing Branch	
Erin J. Kennedy	Health Physicist – Licensing	Region III – Materials Licensing Branch	
Tammy R. Tomczak	Processing Assistant	Region III – Materials Licensing Branch	
Michael A. Kunowski	Branch Chief	Region III – Materials Inspection Branch	
Robert G. Gattone	Sr. Health Physicist	Region III – Materials Inspection Branch	
Geoffrey M. Warren	Sr. Health Physicist	Region III – Materials Inspection Branch	
Deborah A. Piskura	Sr. Health Physicist	Region III – Materials Inspection Branch	
Ryan J. Craffey	Health Physicist - Inspector	Region III – Materials Inspection Branch	
Luis A. Nieves Folch	Health Physicist - Inspector	Region III – Materials Inspection Branch	
Dennis P. O'Dowd	Health Physicist - Inspector	Region III – Materials Inspection Branch	
Zahid M. Sulaiman	Health Physicist - Inspector	Region III – Materials Inspection Branch	
Jason D. Draper	Health Physicist - Inspector	Region III – Materials Inspection Branch	
FY2021 Division Total Overhead FTE Total 8.00, Direct FTE Total 27.00, Total FTE for Branches 35.00			
Region IV			
Mary Muessle	Division Director	Region IV - Management	100%
Linda Howell	Deputy Division Director	Region IV - Management	100%
Heather Gepford, Ph.D.	Branch Chief	Region IV - Management	100%
Lizette Roldan-Otero	Branch Chief	Region IV - Management	100%
Randy Erickson	State Agreement Officer	Region IV - Agreement State Program	100%
Jacqueline Cook	State Agreement Officer	Region IV - Agreement State Program	100%
Binesh Tharakan	Technical Assistant	Region IV - Division of Nuclear Materials Safety	75%
Lynnette Scott	Administrative Assistant	Region IV - Administrative	100%
Tracy Hammon-Karl	Administrative Assistant	Region IV - Administrative	100%
Carol Hill	Licensing Assistant	Region IV - Administrative	100%
Edward Gilman	Contractor	Region IV – Administrative	100%
Rob Evans	Senior Health Physicist	Region IV - Materials Decommissioning Branch	100%
Michelle Simmons	Senior Health Physicist	Region IV - Materials Licensing Branch	100%

Name	Position	Area of Effort	FTE %
Roberto J. Torres	Senior Health Physicist	Region IV - Materials Licensing Branch	100%
Casey Alldredge	Health Physicist	Region IV - Materials Licensing Branch	100%
Linda Gersey	Health Physicist	Region IV - Materials Decommissioning Branch	100%
Latischa Hanson	Health Physicist	Region IV - Materials Licensing Branch	100%
Austin Roberts	Health Physicist	Region IV - Materials Decommissioning Branch	100%
Janine Katanic, Ph.D.	Senior Health Physicist	Region IV - Materials Inspection Branch	100%
James Thompson	Senior Health Physicist	Region IV - Materials Inspection Branch	100%
Kyle Bischoff	Health Physicist	Region IV - Materials Inspection Branch	100%
Allyce Bolger	Health Physicist	Region IV - Materials Inspection Branch	100%
Jason Dykert	Health Physicist	Region IV - Materials Inspection Branch	100%
Mohanned Kawasmi	Health Physicist	Region IV - Materials Inspection Branch	100%
Overhead FTE Total 8, Direct FTE Total 15, Total for Branches: 23			

Appendix E: New Professional Hires

Name	Date Hired Into Division	Degree(s)	Additional Training	Years of Experience in Health Physics
Complex Materials Decommissioning and Uranium Recovery				
Brittany Bolz	December 2019	B.S. Nuclear Engineering	Health Physicist	2
Martha Poston-Brown	August 2020	B.S. Industrial Management M.A.S Health Physics	Health Physicist transferred from inspection to licensing. She also has 36 years' experience in Emergency Preparedness.	36
Greg Chapman	October 2018 to April 2020		Health Physicist. Was a part of the former Materials Decommissioning Branch and joined the Uranium Recovery group during the merge.	
Lifeng Guo	October 2018 to January 2021		Hydrogeologist. Was a part of the former Materials Decommissioning Branch and joined the Uranium Recovery group during the merge.	
Dominick Orlando,	October 2018		Project Manager, originally hired at the agency in April 1990. Was a part of the former Materials Decommissioning Branch and joined the Uranium Recovery group during the merge.	
James Smith	October 2018		Project Manager. Was a part of the former Materials Decommissioning Branch and joined the Uranium Recovery group during the merge.	
Low-Level Waste				
Christopher Grossman,	October 2018		Project Manager with Risk Analyst background. Was a part of the former Materials Decommissioning Branch and joined the Low-Level Waste and Projects Branch (LLWPB) during the merge	
Richard Chang	October 2018 to Summer 2019.		Project Manager. Was a part of the former Materials Decommissioning Branch and joined the LLWPB during the merge.	
Robert Nelson	October 2018 to June 2021		Health Physicist. Was a part of the former Materials Decommissioning Branch and joined the LLWPB during the merge.	
Alexandra Miller	May 2020	B.S. Engineering	Co-Op Student hired as initially as Summer Intern 2020.	
Nathanael Denney	May 2021	B.S. Engineering	Summer Intern 2021	

Name	Date Hired Into Division	Degree(s)	Additional Training	Years of Experience in Health Physics
Region I				
Briana DeBoer	May 2015	B.S. Nuclear Engineering	Prior position in NRC in reactors, internship with Radiation Health Protection group at The Boeing Company. Transferred to the division from another division within the NRC.	1
Leonardo Wardrobe	October 2015	M.S. Environmental Management	Various, including Iowa state materials inspector; Radiological Controls Supervisor at the Hanford PFP facility; NDA Scientist/Analyst; NDA Analyst/Engineer; Radiological Controls Technician	24
Anne DeFrancisco	April 2016	B.S Materials Science and Engineering	Prior position in NRC in reactors and enforcement. Transferred to the division from another division within the NRC.	0
Katherine Warner	May 2016	B.S. Nuclear Engineering	Prior position in NRC in reactors. Transferred to the division from another division within the NRC.	0
Harold (Harry) Anagnostopoulos	October 2017	A.S. Nuclear Technology B.S. Radiation Safety	Various, including military experience, positions at nuclear power plants, NRRPT Certified, Certified Health Physicist, and Certified Safety Professional. Transferred to the division from another division within the NRC.	28
Bruce Dionne	October 2017	Unable to obtain information on this individual. He was only qualified to inspect operating reactors health physics, which is outside the scope of the IMPEP.	Transferred to the division from another division within the NRC.	^
Joseph Furia	October 2017	B.S. Chemistry M.S. Nuclear Chemistry	Various, including health physicist with the Army and radioactive material transportation instructor. Transferred to the division from another division within the NRC.	37
Ronald Rolph	October 2017	B.S. Mathematical Science M.S. Information Technology	Various, including positions in the radiation detection department at Three Mile Island. Transferred to the division from another division within the NRC.	30
Jonathan Pfingsten	April 2018	B.S. Nuclear Engineering	Prior positions in NRC in reactors. Transferred to the division from another division within the NRC.	0
Elizabeth Andrews	November	B.S. Chemical	Prior positions in NRC in reactors.	0

Name	Date Hired Into Division	Degree(s)	Additional Training	Years of Experience in Health Physics
	2018	Engineering, M.S. Sustainable Engineering	Transferred to the division from another division within the NRC.	
Steve Shaffer	June 2019	B.S. Environmental Engineering M.S. Environmental Health	Various, including Health Physicist at the NRC prior to transferring to be a resident/senior resident inspector. Transferred to the division from another division within the NRC.	9
Anthony Dimitriadis	July 2019	B.S. Physics	Various, HP at a Broad Scope licensee, NRC Materials Inspector, positions in NRC reactor programs	34
Juan Ayala	September 2019	B.S. Electrical Engineering	Prior positions in NRC in reactors and allegations/enforcement specialist	0
Christopher Cahill	November 2019	B.S. Electrical Engineering M.S. Environmental Engineer	Prior positions in NRC in reactors	32
Elizabeth Tindle-Engelmann	December 2019	B.S. Radiological Health Engineering	Various, including Health Physicist at Texas licensee type A academic broad scope; Health Physicist and ARSO at NRC licensee manufacturing alpha radiopharmaceuticals; Senior Health Physicist at NRC type A broad scope licensee manufacturing wide variety of radiopharmaceuticals and radiochemicals	7
Netra Patel	May 2020	B.S. Nuclear Engineering	None, recent college graduate	0
Mark Henrion	July 2020	B.S. Secondary Education Mathematics and Physics M.N.S Physics M.P.S Cybersecurity and Information Assurance	Prior NRC positions in reactors and emergency response. Transferred to the division from another division within the NRC.	0
Bryan Edwards	November 2020	B.S. Health Physics	Various including Senior Health Physicist in the private and medical and academic sector; past president of local Health Physics Society	17
Storm Veunephachan	December 2020	B.S. Nuclear Engineering	Various, including state inspector with Pennsylvania Department of Environmental Protection as a Radiation Health Physicist	3
Patrick Hann	February	B.S. Physics	Various, including RSO/Senior Health	11

Name	Date Hired Into Division	Degree(s)	Additional Training	Years of Experience in Health Physics
	2021	M.A.S Health Physics	Physicist at medical broad scope with R&D	
Jason VonEhr	March 2021	B.S. Radiological Health Engineering and Radiological Sciences	Various, including 7 years in NRC Region IV as a Health Physicist/Materials inspector. Transferred to the division from another division within the NRC.	7
Region III				
Jennifer Dalzell	August 2018	B.S. Mechanical Engineering	Materials Control ISFSI and Decommissioning Branch	
David Hills	April 2020	B.S. Nuclear Engineering	Materials Control ISFSI and Decommissioning Branch	
Jason Kelly	September 2019	Health Physics	Materials Licensing Branch	15
Mike Kunowski	April 2020	M.S. Biology/Zoology	Materials Inspection Branch	
Robert Orlikowski	April 2020	B.S. Chemical Engineering	Materials Licensing Branch	
Darren Piccirillo	February 2018	B.S. Physics; M.S. Nuclear Engineering	State Agreement Officer	
Region IV				
Kyle Bischoff	August 2020	B.S. Nuclear Engineering	3 years certified and 5 years experience OSHA, Confined Spaces, Fall Safety, Shoring and Rigging. Materials Inspection Branch	
Mohanned Kawasmi	May 2021	B.S. Nuclear Engineering Minor: Radiological Health Engineering	Former employee with the Texas Commission on Environmental Quality. Materials Inspection Branch	
Casey Alldredge	March 2020	B.S. Radiological Engineering	Allegation/ Enforcement Specialist. Materials Licensing and Decommissioning Branch	

Regarding Sealed Source and Device reviewers, Ms. Arribas-Colon's, Mr. Herrera's, Ms. Sepulveda's, and Dr. Valentin-Rodriguez academic training and professional qualifications were reviewed in previous IMPEP audits. Dr. Valentin-Rodriguez completed the IMC 1248 qualification program and obtained her signature authority after the last IMPEP of the NRC's Sealed Source and Device program.

Appendix F: Staff Not Yet Qualified

Name	Previous Qualification	Qualification Requirements Currently in Progress	Anticipated Completion Date
Complex Materials Decommissioning			
Given the limited number of complex decommissioning sites and the similarities between the uranium recovery and decommissioning qualification programs, the staff is focusing its decommissioning qualifications training on specific courses as the need arises.			
Uranium Recovery			
Brittany Bolz		Uranium Recovery Project Manager and Technical Reviewer under Inspection Manual Chapter (IMC) 1248 Appendix I.	H-100: Site Access Training - Book work completed. On the Job Training portion needed. On hold due to COVID-19.
			H-122: Fundamental Health Physics I and II. Book work completed. Lab portion needed. Scheduled for June 2021.
			H-111: Environmental Monitoring for Radioactivity. No course offerings available. Lab portion on hold due to COVID-19.
			Introduction to National Environmental Policy Act. No course offerings available.
			F-201s: Fuel Cycle Processes. In progress
Martha Poston-Brown	IMC 1248 Appendix F	Uranium Recovery Project Manager and Technical Reviewer under IMC 1248 Appendix I.	F-201s: Fuel Cycle Processes. In progress
	IMC 1246 Appendix A Section II		NEPA for the Uninitiated. No course offerings available
	IMC 1248 Appendix H		

Name	Previous Qualification	Qualification Requirements Currently in Progress	Anticipated Completion Date
Sealed Source and Device			
Lance Rakovan		Sealed Source and Device reviewer in accordance with IMC 1248.	Departed the program in March 2021. Still needed to take complete additional case work under supervision.
Region I			
Juan Ayala		License Reviewer and Materials Inspector under IMC 1248	Late 2021
Elizabeth Tindle-Engelmann		License Reviewer and Materials Inspector under IMC 1248	Mid 2021
Netra Patel		License Reviewer and Materials Inspector under IMC 1248	Early 2022
Patrick Hann		License Reviewer and Materials Inspector under IMC 1248	Early 2023
Region III			
Jason Kelly	Agreement State Qualifications	License Review under IMC 1248 Appendix A	
Jennifer Dalzell (Cross Qual.)	IMC 1248 App A. License Reviewer	Decommissioning Materials Inspector, Project Managers and Technical Reviewers under IMC 1248 Appendix F & G.	
Bill Lin (Cross Qual.)	IMC 1248 App B. Materials HP Inspector	Decommissioning Materials Inspector, Project Managers and Technical Reviewers under IMC 1248 Appendix F & G.	
Sara Forster (Cross Qual.)	IMC 1248 App A. License Reviewer	Decommissioning Project Managers and Technical Reviewers under IMC 1248 Appendix G.	June 2021
Frank Tran (Cross Qual.)	IMC 1248 App A. License Reviewer	Decommissioning Project Managers and Technical Reviewers under IMC 1248 Appendix G.	
Region IV			
Casey Alldredge	IMC 1248, App A	All formal coursework completed. Recommendation for	TBD

Name	Previous Qualification	Qualification Requirements Currently in Progress	Anticipated Completion Date
		limited signature authority on portable gauges submitted to management April 21, 2021	
Kyle Bischoff	Materials Inspector under IMC 1248, Appendix B	Formal coursework in progress; qualification journal available upon request	September 2023

Appendix G: Staff Departures

Name	Position	Date Left Position	Reason for Leaving/Transfer
Complex Materials Decommissioning and Uranium Recovery			
Samantha Crane	Project Manager	June 2018	
James Webb	Health Physicist	May 2019	
Greg Chapman	Health Physicist	April 2020	
Ken Kalman	Project Manager	July 2020	
Lifeng Guo	Hydrogeologist	January 2021	
Elise Striz	Hydrogeologist	May 2021	
Low-Level Waste			
Richard Chang	Project Manager.	Summer 2019	
Robert (Lee) Gladney		Summer 2020	
Lloyd Desotell		November 2020	
Marlayna Doell		November 2020	
Robert Nelson	Health Physicist	June 2021	
Sealed Source and Device			
Celimar Valentin-Rodriguez	General Engineer	June 2020	
Lance Rakovan	Project Manager	March 2021	
Region I			
Kathy Modes	Health Physicist	July 2015	Transfer to another division within the NRC
Daniel Collins	Division Director	February 2016	Transfer to another division within the NRC
Sattar Lodhi	Health Physicist	February 2016	Retired
Hector Bermudez	Health Physicist	February 2017	Retired
James Dwyer	Branch Chief	July 2017	Retired
Blake Welling	Branch Chief	July 2017	Promoted to Deputy Division Director (DRP, RI)
Bruce Dionne	Reactor Health Physicist	December 2017	Retired
Mark Roberts	Senior Health Physicist	December 2018	Retired
Lester Tripp	Health Physicist	March 2019	Retired
Dennis Lawyer	Health Physicist	April 2019	Retired

Name	Position	Date Left Position	Reason for Leaving/Transfer
Raymond Powell	Branch Chief	June 2019	Retired
Arthur Burritt	Branch Chief	June 2019	Retired
Joseph Furia	Senior Reactor Health Physicist	September 2019	Retired
John Miller	State Agreement Officer	November 2019	Retired
Donna Gruber	Licensing Assistant	November 2019	Retired
Craig Gordon	Senior Health Physicist	December 2019	Retired
Todd Jackson	Senior Health Physicist	February 2020	Retired
James Trapp	Division Director	June 2020	Retired
James Cassata	Health Physicist	August 2020	Deceased
Ronald Rolph	Reactor Health Physicist	August 2020	Transfer to another division within the NRC
Joseph Nick	Deputy Division Director	December 2020	Transfer to another division within the NRC
Leonardo Wardrobe	Health Physicist	February 2020	Transfer to another Region within the NRC
Region III			
Jennifer Dalzell	License Reviewer	August, 2018	Transfer to MCID
Nicole Fields	Decommissioning and ISFSI Inspector	January, 2021	Transfer to NRR
Ed Harvey	Materials Inspector	July, 2021	Transfer to RES
Matthew Learn	Decommissioning and ISFSI Inspector	February, 2020	Transfer to NMSS
James Lynch	Regional State Agreements Officer	January 2018	Retired
Daniel Strohmeyer	License Reviewer	March, 2021	Transfer to RES
Navid Tehrani	Materials Inspector	December, 2017	Left for private sector
Kevin Null	Materials Inspector	March, 2021	Retired
Region IV			
Martha Poston-Brown	UR & Decommissioning Inspector	August 2020	Transferred to DUWP
Michelle Hammond	Materials Licensing Reviewer	April 2021	Transferred to NMSS/LB

Appendix H: Inspection Priorities

Inspections	FY15	FY16	FY17	FY18	FY19	FY20	FY21
Region I							
Routine Inspections (Priority 1, 2, 3)	105	135	128	127	125	94	23
Initial Inspections	16	19	15	19	15	18	4
Region III							
Routine Inspections Priority 1			12 (7/22 - 12/31)	22	23	13	17 (1/1 - 4/1)
Routine Inspections Priority 2			19 (7/22 - 12/31)	92	83	15	7 (1/1 - 4/1)
Routine Inspections Priority 3			20 (7/22 - 12/31)	47	63	13	5 (1/1 - 4/1)
Initial Inspections			5 (7/22 - 12/31)	11	11	13	2 (1/1 - 4/1)
Region IV							
Routine Inspections (Priority 1, 2, 3)					49 (4/6 - 12/31)	39	23 (1/1 - 4/19)
Initial Inspections					12 (4/6 - 12/31)	14	4 (1/1 - 4/19)

Note: The licensed Low-Level Waste disposal facilities are located in Agreement States, as such the respective Agreement States perform inspection activities. For the radium program, none of the sites are licensed per Commission direction and, therefore, IMC 2800 does not specify a priority for inspecting them. However, the sites are generally similar to decommissioning sites and inspected or observed on an as needed basis.

Appendix I: Overdue Inspection Priorities

License Name	License No. Docket No.	Priority & Program Codes	Last Inspecti on Date/ License Issued	Due Date	Date Performed	Days Overdue	Inspecti on Report Issued
Region I							
Advanced Combat Solutions Inc. Reason overdue not documented: HQs was not assigning their “E” licenses (at this time) to the region for inspection.	09-35310-01E 03038926	Initial (5) 03254	12/5/16	12/05/17	02/11/20	3 years 2 months	02/21/20
Techniweld USA Reason overdue not documented: HQs was not assigning their “E” licenses (at this time) to the region for inspection.	10-35153-01E 04038371	Initial (5) 11240	07/24/14	07/01/15	09/18/2015	80 days	09/18/15
Mid Atlantic Maintenance Reason overdue: Travel restrictions due to the Covid-19 PHE	47-35536-01 03039162	Initial (5) 03121	06/06/19	06/06/20	06/24/20	18 days	06/24/20
Hospital Metropolitano Dr. Susoni Reason overdue: Inadvertent oversight	52-35189-01 03038787	Initial (3) 02120	02/09/15	02/09/16	06/20/2016	120 days	06/20/16
Region III							
¹ C&C Environmenta l, Inc.	48-35406-01	2 (initial)	License issued 05/10/19	11/10/18	01/9/19	Approx. 2 months	01/9/19
² Dow Agrosciences LLC	21-35538-01	5 (initial)	License issued 06/17/19	06/17/20	06/19/20	2 days	08/5/20
³ DDP Specialty Electronic Materials US, Inc.	21-35537-01	5 (initial)	License Issued 06/17/19	06/17/20	06/24/20	7 days	07/22/20
Region IV							

License Name	License No. Docket No.	Priority & Program Codes	Last Inspecti on Date/ License Issued	Due Date	Date Performed	Days Overdue	Inspecti on Report Issued
NonDestructive and Visual Inspection, LLC	17-29410-01	1	01/29/19	07/29/20	11/03/20*	4 months, 5 days	11/03/20
Quality Inspection & Testing, Inc.	17-35492-01	1	01/30/19	07/30/20	11/03/20*	4 months, 4 days	11/03/20
Versa Integrity Group, Inc.	17-35243-01	1	01/28/19	07/28/20	11/04/20 - 11/17/20*	4 months, 7 days	12/3/20
Metals Testing Services, Inc.	37-29406-02	1	07/10/19	01/10/21	03/22/21 – in progress*	2 months, 12 days	
Avera St. Luke's	40-18000-01	2	03/10/16	03/10/19	07/30/19 – 12/10/19*	4 months, 20 days	12/17/19
Cultilux⁺	17-35464-01E	Initial	11/13/18	11/13/19	01/11/21 – in progress*	1 year, 1 month, 29 days	

¹ The inspection was initially due in May 2018, then extended to November 2018 because the licensee had not begun licensed activities. Due to inclement weather and the Radiation Safety Officer’s availability, the inspection could not be conducted until January 2019. The information above is current as of 4/1/2021

^{2 and 3} All inspections planned for March and April 2020 were postponed due to the COVID-19 public health emergency and resulting travel restrictions. As a result of this delay and the availability of licensee staff, these two initial inspections were performed overdue. These two inspections were not extended to 18 months because they were already actively using licensed materials. The information above is current as of 4/1/2021

* Includes the inspection scheduling window allocated to each priority based on IMC 2800 (e.g., Priority 1 and 2 licensees may vary around their dude date by +/- 50 percent.)

⁺ Culitlux inspection region was assigned incorrectly into WBL as Region II. The error was identified during an audit of WBL by RIV inspection staff. An inspection was initiated immediately after the error was identified.

Note: The licensed Low-Level disposal facilities are located in Agreement States, as such the respective Agreement States perform inspection activities. For the radium program, none of the sites are licensed per Commission direction and, therefore, IMC 2800 does not specify a priority for inspecting them. Thus, none are overdue. However, the sites are generally similar to decommissioning sites and inspected or observed on an as needed basis.

Appendix J: Number of Reciprocity Licensees

Year	Applicants/Potential Candidates	Inspections Performed	Program Codes	Priority
Region I				
2015	17	2	03320	1
2016	17	7	03234	2
			02220	3
			03219	3
			03320	1
2017	27	9	02220	3
			03226	1
			03320	1
			03226	2
			03219	3
2018	22	11	03320	1
			03226	2
			03219	3
			03234	2
			03211	2
			03226	1
			03234	2
			02220	3
2019	22	10	03320	1
			02220	3
			03219	3
			03234	2
			03320	1
2020	22	6	03320	1
			03121	
			03226	2
			03320	1
2021 (As of 4/16/21)	11	1	03226	1
Region III				
2017	21	6	03226	2
			03320	1
			02220	3
2018	18	7	03320	1
			03110	3
			03226	2
			02220	3
2019	13	5	03226	2
			02220	3
			03226	2
			03211	2
			03320	1
			03234	2
2020	15	2	03111	3
2021 (As of 4/1/21)	2	1	03226	2

Year	Applicants/Potential Candidates	Inspections Performed	Program Codes	Priority
Region IV				
2019	109	9	03320	1
			03120	5
			03110	3
			03226	2
			03320	1
			03219	2
2020	88	3	03320	N/A
			03121	N/A
			03226	5
2021	67	31	03320	1
			03226	2
			03234	2
			03110	3
			03111	3
			03610	3
			03121	5

Note: All applicants are potential candidates per the Guidance for Performing NRC Reciprocity Inspections memo issued on November 13, 2020. Region III revised criteria for Candidate selection starting in 2021

Appendix K: Accompaniments

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Region I							
Harold (Harry) Anagnostopoulos				August N/A (7) Powell	(6)	December N/A (7) Dimitriadis	January N/A (7) Dimitriadis
Elizabeth Andrews					October N/A (7) Powell	December N/A (7) Dimitriadis	May N/A (7) Dimitriadis
Juan Ayala						January Not yet qualified	Not yet qualified
Hector Bermudez	April 03620 Dwyer	July 02120 Dwyer	N/A (3)	N/A (3)	N/A (3)	N/A (3)	N/A (3)
James Cassata	July Not yet qualified Welling	November Welling	March Welling	February Burritt	(5)	N/A (3)	N/A (3)
Steven Courtemanche	April E-Distribution Welling	September Welling	July Welling	January Burritt	September Burritt	September Cahill	Not yet scheduled
Briana DeBoer	July N/A (7) Ferdas	February N/A (7) Powell	October Powell	April N/A (7) Powell	October N/A (7) Powell	August N/A (7) Dimitriadis	April N/A (7) Dimitriadis
Bruce Dionne			N/A (8)				
Bryan Edwards							Not yet qualified
Robin Elliott	December 03614 Janda	November 03614 Dwyer	June 03614 Dwyer	May Janda	June Janda	September 02200 Janda	Not yet scheduled

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Elizabeth Tindle-Engelmann						August Not yet qualified	February Not yet qualified
Joseph Furia				March N/A (7) Powell	May N/A (7) Powell	N/A (3)	N/A (3)
Bob Gallagher	September 02230 Dwyer	May 02120 Dwyer	June 03614 Dwyer	June Janda	September Janda	(6)	November 2120 Janda
Farrah Gaskins	February 02230, 02120 Dwyer	May 02200 Dwyer	February 02230, 02120 Dwyer	July Janda	June Janda	(2)	(2)
Craig Gordon	February 03210, 03121 Welling	July Welling	June 03121 Welling	June Burritt	June Burritt	N/A (3)	N/A (3)
Stephen Hammann	March N/A (7) Ferdas	October N/A (7) Powell	July N/A (7) Powell	October N/A (7) Powell	March N/A (7) Powell	October N/A (7) Dimitriadis	Not yet scheduled
Patrick Hann							Not yet qualified
Mark Henrion						September N/A (7) Dimitriadis	May N/A (7) Dimitriadis
Todd Jackson	September Welling	March Cahill	February Welling	September Burritt	October Burritt	N/A (3)	N/A (3)
Laurie Kauffman	(1)	April N/A (7) Powell	June N/A (7) Powell	May N/A (7) Powell	(6)	October N/A (7) Dimitriadis	February Cahill
Penny Lanzisera	February 02230, 02120 Dwyer	January 02200 Dwyer	July 02110 Dwyer	June Janda	September Janda	February 02230 Nick	Not yet scheduled

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Dennis Lawyer	August Welling	September Welling	September Welling	December Burritt	N/A (3)	N/A (3)	N/A (3)
Sattar Lodhi	September Welling	N/A (3)	N/A (3)	N/A (3)	N/A (3)	N/A (3)	N/A (3)
Orysia Masnyk Bailey	November N/A (7) Ferdas	January N/A (7) Powell	July N/A (7) Powell	November N/A (7) Powell	October N/A (7) Powell	September N/A (7) Dimitriadis	October N/A (7) Dimitriadis
John Miller	November 03310 Welling	July Welling	September Welling	N/A (2)	N/A (2)	N/A (2)	N/A (2)
Kathy Modes	(2)	N/A (2)	N/A (2)	N/A (2)	N/A (2)	N/A (2)	N/A (2)
Janice Nguyen	October 02110, 02310 Dwyer	March 02230 Dwyer	July 02110 Dwyer	September Janda	June Janda	September 02201 Janda	Not yet scheduled
John Nicholson	September N/A (7) Powell	April N/A (7) Powell	December N/A (7) Powell	November N/A (7) Powell	January N/A (7) Powell	September N/A (7) Dimitriadis	October N/A (7) Dimitriadis
Netra Patel							Not yet qualified
Jonathan Pfingsten					May Not yet qualified	November Cahill	Not yet scheduled
Randy Ragland	August Welling	September Welling	August Welling	June Burritt	April Burritt	January Cahill	March Cahill
Michael Reichard	February 01321 Welling	January Welling	June Welling	June Burritt	April Burritt	January Cahill	February Cahill
Mark Roberts	March N/A (7) Ferdas	May N/A (7) Powell	October N/A (7) Powell	October N/A (7) Powell	N/A (3)	N/A (3)	N/A (3)
Ronald Rolph				January N/A (7) Powell	February N/A (7) Powell	October N/A (7) Dimitriadis	(2)

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Shawn Seeley	December 03614 Dwyer	November 03614 Dwyer	June 03614 Dwyer	February 02200, 02120, 02230, 02500 Janda	June Janda	September 02200 Janda	Not yet scheduled
Steve Shaffer						December N/A (7) Dimitriadis	Not yet scheduled
Lester Tripp	September Dwyer	January 02110 Dwyer	August Powell	(4)	N/A (3)	N/A (3)	N/A (3)
Elizabeth Ullrich	July Welling	March Cahill	April Welling	March Burritt	October Burritt	October Cahill	Not yet scheduled
Storm Veunephachan							Not yet qualified
Jason VonEhr							April Cahill
Leonardo Wardrobe		Not yet qualified	November 03121 Welling	April Burritt	July Burritt	July Cahill	(2)
Katherine Warner			June N/A (7) Powell	October N/A (7) Powell	January N/A (7) Powell	March N/A (7) Dimitriadis	May N/A (7) Dimitriadis
Tara Weidner	July 02110, 02230 Dwyer	April 02230 Dwyer	June 02200 Dwyer	May Janda	April Janda	(6)	Not yet scheduled
Scott Wilson	August Welling	August Welling	June Welling	May N/A (7) Powell	August N/A (7) Powell	October N/A (7) Dimitriadis	May N/A (7) Dimitriadis

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Region III							
Colleen Casey Paul Pelke - Supervisor			September Telecon – (3M; S-8 Irradiator Decommissioni ng)				
Laura Cender Paul Pelke - Supervisor				October (P) SDI LaFarga, LLC CN 600440	November Telecon - Gerdau- Monroe Mill		
Laura Cender Paul Pelke - Supervisor				April (P) Ace Testing CN 602159			
Laura Cender Paul Pelke - Supervisor				May (P) Vance Brothers, Inc CN 602609			
Laura Cender Robert Orlikowski - Supervisor						June Teams Mtg. – Reliable Testing Services, LLC	December PLSV – S.A. Hospital Acquisition Group, LLC
Ryan Craffey Aaron McCraw - Supervisor			June Consumers Energy	October Mistras Group, Inc			
Ryan Craffey Aaron McCraw - Supervisor				November Individual (OI Assist)			
Ryan Craffey John Giessner - Supervisor				November University of Michigan			
Ryan Craffey Christine Lipa - Supervisor				February EMD Millipore			

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Ryan Craffey Mike Kunowski - Supervisor							March Beaumont Hospital Exit Meeting – Remote
Ryan Craffey Mike Kunowski - Supervisor							March lonetix Exit Meeting – Remote
Jason Draper Aaron McCraw - Supervisor				July Department of Veteran Affairs – Minneapolis	October Franciscan Healthcare - Munster		
Jason Draper Rob Ruiz - Supervisor						November Acuren, Billings, MT field office	
Jason Draper Mike Kunowski - Supervisor							March West Michigan Cardiology Exit Meeting – Remote
Sara Forster Paul Pelke - Supervisor			December Telecon – Columbus Regional Hospital CN 601718			December Site Visit – Spectron MRC, LLC	
Cassandra Frazier John Giessner - Supervisor			June Site Visit (DOE AIM First Responders Training) -IL				

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Cassandra Frazier Paul Pelke - Supervisor				December Telecon – Niowave, Inc CN 602247	February Telecon- Niowave		
Cassandra Frazier Paul Pelke - Supervisor					May Niowave – Licensee Mtg at RIII with NRR Reps.		
Cassandra Frazier Robert Orlikowski - Supervisor						August Telecon- Niowave	
Robert Gattone Mohammed Shuaibi - Supervisor					February The Toledo Hospital Cardiac Testing Center		
Robert Gattone John Giessner - Supervisor						November University of Michigan	
Magdalena Gryglak Paul Pelke - Supervisor				September (S) Methodist Hospital of Gary CN 609093	February Site Visit – Karmanos Cancer Center		
Ed Harvey Aaron McCraw - Supervisor				July 3M Corporate Office	October 3M Corporate Office	October Butler University, Indianapolis, IN	
Ed Harvey Aaron McCraw - Supervisor				July Department of Veteran Affairs - Minneapolis			

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Ed Harvey Paul Pelke - Supervisor					February Karmanos Cancer Center (Part 37 readiness)		
Jason Kelly Robert Orlowski - Supervisor							November PLSV – Nutrition and Biosciences USA 1, LLC
Michael LaFranzo Mike Kunowski - Supervisor			September Hematite			February University of Missouri	
Michael LaFranzo John Giessner - Supervisor				October Hematite			
Michael LaFranzo Christine Lipa - Supervisor				May Univ of MO: Pickard Hall, Research Bldg			
Michael LaFranzo David Pelton - Supervisor					August Jefferson Proving Ground	October University of Missouri	
Michael LaFranzo David Hills - Supervisor							October University of Missouri
Peter Lee Mike Kunowski - Supervisor			June Cardinal Health--St. Louis				

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Peter Lee Mike Kunowski - Supervisor			August Cardinal Health--St. Louis			February University of Missouri	
Peter Lee Paul Pelke - Supervisor				May Niowave, Inc.		December Spectron mrc, LLC site visit	
Peter Lee Paul Pelke - Supervisor				September Niowave, Inc.			
Bill Lin Christine Lipa - Supervisor			August Livonia, MI (radium site)	May Novelty Radium Site			
Bill Lin Mike Kunowski - Supervisor				April Detroit City Airport	December Museum in Kalamazoo for Ra- 226		
Bill Lin John Giessner - Supervisor					October Museums in Muskegon/Kalama zoo for Ra-226		
James Lynch Christine Lipa - Supervisor			August Iowa IMPEP Review	October OAS Meeting			
James Lynch / Darren Piccirillo John Giessner - Supervisor				December IEMA, Springfield, IL			
Aaron McCraw John Giessner - Supervisor			May CRCPD Annual Meeting				

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Aaron McCraw John Giessner - Supervisor			June Meeting with State of Indiana on Agreement State Interest				
Aaron McCraw Christine Lipa - Supervisor			August Organization of Agreement States Meeting		August State of Michigan Meeting		
Aaron McCraw David Pelton - Supervisor					June Workshop on Managing Training Programs		
Aaron McCraw David Pelton - Supervisor					August Organization of Agreement States Annual Mtg		
Luis Nieves Folch John Giessner - Supervisor			July MPI Research, Inc.				
Luis Nieves Folch Aaron McCraw - Supervisor				January Acuren Inspection Services	May Mikon Corporation	October St. Vincent Hos. & Alt & Witzig, Indianapolis, IN	
Luis Nieves Folch Aaron McCraw - Supervisor					May Ideker, Inc. (temporary job site)		
Luis Nieves Folch Mike Kunowski - Supervisor							March Alt & Witzig Exit Meeting – Remote

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Luis Nieves Folch Mike Kunowski - Supervisor							March Hartford Quality Assurance Exit Meeting – Remote
Kevin Null Aaron McCraw - Supervisor			August Ray County Memorial Hospital; Cameron Regional Medical Center				
Kevin Null Aaron McCraw - Supervisor				September Shared Medical Services	May Integrated Science Solutions		
Kevin Null Aaron McCraw - Supervisor					May North Kansas City Hospital		
Dennis O'Dowd Christine Lipa/ Aaron McCraw - Supervisor			August Methodist Hospitals of Gary, Inc.				
Dennis O'Dowd Christine Lipa - Supervisor				January St. Vincent Hospital			
Dennis O'Dowd Aaron McCraw - Supervisor				July Department of Veteran Affairs - Minneapolis	September TEAM Industrial Services (temporary job site)		
Dennis O'Dowd Aaron McCraw - Supervisor					September GEOCON Professional Services (temp job site)		

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Dennis O'Dowd Mike Kunowski - Supervisor							April Saint Louis University Exit Meeting – Remote (MS Teams)
Bryan Parker John Giessner - Supervisor				February Inspection – Mallinckrodt Nuclear Medicine, LLC			
Bryan Parker Paul Pelke - Supervisor				September Site Visit – Mallinckrodt Nuclear Medicine, LLC, CN 609344 & 609346			
Bryan Parker Mohammed Shuaibi - Supervisor					March Inspection - Curium USA dba Mallinckrodt		
Bryan Parker Paul Pelke/ David Pelton - Supervisor						November VA Biennial Inspection	
Darren Piccirillo John Giessner - Supervisor				April Illinois (IMPEP)			
Darren Piccirillo Piccirillo John Giessner - Supervisor				May CRCPD			

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Darren Piccirillo Christine Lipa - Supervisor				August OAS Conference	February Ohio (IMPEP)		
Darren Piccirillo Christine Lipa/ Aaron McCraw - Supervisor					April Minnesota (Periodic Meeting)		
Darren Piccirillo Christine Lipa - Supervisor					May CRCPD		
Darren Piccirillo David Pelton - Supervisor					July Wisconsin (IMPEP)	April Iowa (Periodic Meeting); Remote	November Illinois (Periodic Meeting); Remote
Darren Piccirillo David Pelton - Supervisor					August OAS Conference		
Deborah Piskura Christine Lipa - Supervisor				October Mallinckrodt Nuclear Medicine, LLC			
Deborah Piskura John Giessner - Supervisor				February Mallinckrodt Nuclear Medicine, LLC			
Deborah Piskura Mohammed Shuaibi - Supervisor					March Curium USA dba Mallinckrodt		
Deborah Piskura David Pelton - Supervisor					June IUMC/IUPUI		

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Deborah Piskura Rob Ruiz - Supervisor						October Curium, St. Louis, MO	
Deborah Piskura Mike Kunowski - Supervisor							December Mercy Hospital Exit Meeting – Telephone
Daniel Strohmeyer Paul Pelke - Supervisor					November PLSV - Michigan Canton Cardiology Associates		
Daniel Strohmeyer Paul Pelke - Supervisor					April PLSV - Community Stroke & Rehabilitation Center		
Zahid Sulaiman John Giessner - Supervisor			September Applied Technical Services; Michigan Department of Transportation				
Zahid Sulaiman Christine Lipa - Supervisor				September Lakeland Medical Center, St. Joseph	February Progress West Healthcare		
Zahid Sulaiman Aaron McCraw - Supervisor					July Mercy St. Mary's		
Navid Tehrani Aaron McCraw - Supervisor				November Walsh & Kelly, Inc.			

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Frank Tran John Giessner - Supervisor			June Site Visit (DOE AIM Training) – IL				
Frank Tran John Giessner - Supervisor			September Site Visit (DOE AIM Training – Coast Guard) – MI				
Frank Tran Paul Pelke - Supervisor				October (P) SDI LaFarga, LLC CN 600440	February Telecon – Niowave		
Frank Tran Paul Pelke – Supervisor				December (T) Niowave, Inc CN 602247	May Niowave – Licensee Mtg at RIII with NRR Reps		
Frank Tran Paul Pelke – Supervisor				May (S) Niowave, Inc CN 608427			
Frank Tran Paul Pelke - Supervisor				August (S) Niowave, Inc CN 608427			
Frank Tran Robert Orlikowski - Supervisor						June Teams Mtg. - Reliable Testing Services, LLC	
Frank Tran Robert Orlikowski - Supervisor						August Telecon – Niowave, Inc.	

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Geoffrey Warren Christine Lipa - Supervisor				February McLaren - Greater Lansing; Hurley Medical Center; Barr Engineering, Inc.; and CPI Pharmacy Services Holding, LLC			
Geoffrey Warren Paul Pelke - Supervisor				September Methodist Hospital of Gary CN 609093			
Geoffrey Warren Aaron McCraw - Supervisor					July Spectrum Health		
Geoffrey Warren David Pelton - Supervisor						January Washington University in St. Louis, St. Louis, MO	
Geoffrey Warren Mike Kunowski - Supervisor							December Spectrum Health Hospitals – Remote (MS Teams)
Geoffrey Warren Mike Kunowski - Supervisor							January Endress+Haus er Exit Meeting – Remote (MS Teams)

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
Region IV							
Allyce Bolger Dan Bradley - Supervisor							January R&D 40-02331-19
Allyce Bolger Patricia Silva - Supervisor					June Medical Therapy – Emerging Technology 42-05255-07 R&D broad type A 42-09388-01 Panoramic irradiator 30-02405-10		
Jason Dykert Dan Bradley - Supervisor							January Medical 53-05379-01 04-27616-01
Jason Dykert Patricia Silva - Supervisor						December Other Services ≤100 Ci 37-30062-01	
Janine Katanic Dan Bradley - Supervisor							January Medical 50-17838-01
Janine Katanic Patricia Silva - Supervisor						November Other Services ≤100 Ci 37-30062-01	

Inspector Name	FY15 Month Program Code Accompanied by	FY16 Month Program Code Accompanied by	FY17 Month Program Code Accompanied by	FY18 Month Program Code Accompanied by	FY19 Month Program Code Accompanied by	FY20 Month Program Code Accompanied by	FY21 Month Program Code Accompanied by
James Thompson Patricia Silva - Supervisor					June Panoramic irradiator 30-02405-10		
James Thompson Dan Bradley - Supervisor							January Medical 40-16571-01
Randy Erickson Patricia Silva - Supervisor						September Industrial radiography 42-08456-02	

Note: The licensed Low-Level Waste disposal facilities are located in Agreement States, as such the respective Agreement States perform inspection activities.

- (1) Not accompanied (FY15) due to special circumstances (medical, special telework)
- (2) Transferred to a different position within the NRC
- (3) Retired
- (4) Not accompanied (FY18) due to extended illness
- (5) Not accompanied (FY19) due to extended illness
- (6) Not accompanied (FY20) due to extended illness
- (7) Individual in the Decommissioning, ISFSI and Reactor Health Physics branch – no program code
- (8) Retired before an accompaniment was scheduled

Appendix L: Region III Survey Instrument Capabilities

Capability	Detectors	Mnfr.	Meter(s)	Detector(s)
Alpha	Zinc-Sulfide (ZnS) Scintillators	Ludlum	2241-2, 2241-3	43-5, 43-92
Beta	Plastic Scintillators	Ludlum	2241-2, 2241-3	44-142
	Plastic Scintillator Sensitive to Beta	Ludlum	2241-2	44-1
Gamma	Sodium-Iodide (NaI) Crystal Scintillators	Ludlum	2241-2, 2241-3	44-10
	Sodium-Iodide (NaI) Crystal Scintillators for Low Energy Gammas (FIDLER)	Ludlum, Alpha-Spectra	2241-3, 2241-2	12DT063QB2/3, 20DT063QA2/5B
	Sodium-Iodide (NaI) Crystal Scintillator for Low Energy Gammas	Ludlum	2241-2	44-17
	NaI Spectrometer	Canberra	1N1K	IPROL-1
Alpha / Beta	Gas Proportional	Ludlum	2221, 2241-2	43-37, 43-68
	Zinc-Sulfide (ZnS) w/ Plastic Scintillator	Ludlum	2241-3	44-93
Alpha / Beta / Gamma	Geiger-Mueller (GM) Pancakes	Ludlum	2241-2, 2241-3, 2402, 2403,	44-9
		Ludlum	26-1	26-1
Dose Rate	Energy Compensated Geiger-Mueller (GM)	Thermo	RadEye G	N/A
		Canberra	MRAD213	N/A
	Geiger-Mueller (GM)	Ludlum	2241-2, 2241-3, 2403, 2402, Model 3	44-38
	Sodium-Iodide (NaI) Crystal Scintillators for microR/hr	Ludlum	Model 19	N/A
Other	Satellite GPS	Trimble	GeoXT, GeoXH	N/A
		Garmin	Etrex	N/A
	Air Sampler	RADeCO	H-811	N/A

Note: The information above was current as of 02/17/21.

Appendix M: Specific Radioactive Material Licenses

The table lists the licensees subject to NRC regulation from June 2018 through June 2021.

	Licensee	License Number	Docket Number	State	Notes
Complex Materials Decommissioning					
1.	Cimarron Environmental Response Trust (Kerr-McGee)	SNM-928	07000925	OK	Former fuel fabrication facility that was licensed under Part 70. NRC staff currently reviewing decommissioning plan for the facility.
2.	Sequoyah Fuels Corporation	SUB-1010	40-8027	OK	Former uranium conversion facility. Site contains 11e.(2) byproduct material and will have an on-site disposal cell that will transition to DOE for long-term care (similar to what occurs at a conventional uranium mill), in decommissioning
3.	FMRI, Inc. (Fansteel)	SMB-911	04007580	OK	Facility extracted tantalum and columbium from uranium ore, thorium ore, and tin slag feedstock This process did not specifically extract uranium and thorium from the ore, but the uranium and thorium concentrations were high enough to be classified as source material. FMRI is performing site maintenance during litigation.
4.	Jefferson Proving Ground (JPG)	SUB-1435	04008838	IN	Depleted uranium present from munitions testing by the Army. License has transitioned to possession only status, no longer in decommissioning.
5.	Sigma-Aldrich	24-16273-01	03010716	MO	Radioactive byproduct materials were researched and developed, as well as stored, and processed.
6.	Hematite	SNM-33	07000036	MO	Former fuel fabrication facility licensed under Part 70. License has been terminated.
7.	Centrus Energy Corporation	SNM-7003	07007003	OH	Facility ultimately decided to resume operations, no longer in decommissioning. This is an enrichment facility licensed under Part70.
8.	General Atomics	SNM-696	07000734	CA	Licensee conducted a broad range of nuclear related research and development activities. SNM License terminated May 2019
9.	Shallow Land Disposal Area (BWXT Technologies, Inc.)	SNM-2001	07003085	PA	Former fuel fabrication facility. License in abeyance, USACE responsible for cleanup under FUSRAP. License authorized possession of SNM over 350 grams contained U-235.
10.	West Valley Demonstration Project	CSF-1	0500201, POOM-032	NY	Former reprocessing facility, DOE managing the cleanup. This is a part 50 license.

	Licensee	License Number	Docket Number	State	Notes
Uranium Recovery					
1.	Crow Butte Resources, Inc.	SUA-1534	40-8943	NE	ISR
2.	NuFuels, Inc.	SUA-1580	40-8968	NM	ISR, licensed, but never constructed.
3.	Powertech (USA) Inc.	SUA-1600	40-9075	SD	ISR, licensed, but never constructed.
4.	Lost Creek ISR, LLC	SUA-1598	40-9068	WY	ISR
5.	Uranium One Americas, Inc.	SUA-1596	40-9073	WY	ISR, licensed, but never constructed.
6.	Uranerz Energy Corporation	SUA-1597	40-9067	WY	ISR
7.	AUC LLC	SUA-1602	40-9092	WY	ISR, licensed, but never constructed.
8.	Strata Energy, Inc.	SUA-1601	40-9091	WY	ISR
9.	Power Resources, Inc.	SUA-1548	40-8964	WY	ISR
10.	Kennecott Uranium Co.	SUA-1650	40-8584	WY	Conventional
11.	Uranium One U.S.A.	SUA-1341	40-8502	WY	ISR
12.	American Nuclear Corporation	SUA-667	40-4492	WY	Conventional, in decommissioning
13.	Homestake Mining of California	SUA-1471	40-8903	NM	Conventional, in decommissioning
14.	Rio Algom Mining LLC	SUA-1473	40-8905	NM	Conventional, in decommissioning
15.	Sequoyah Fuels Corporation	SUB-1010	40-8027	OK	Former uranium conversion facility. Site contains 11e.(2) byproduct material and will have an on-site disposal cell that will transition to DOE for long-term care (similar to what occurs at a conventional uranium mill), in decommissioning
16.	UNC Mining and Milling, Division of United Nuclear Corporation	SUA1475	40-8907	NM	Conventional, in decommissioning
17.	Bear Creek Uranium Company	SUA-1310	40-8452	WY	Conventional, in decommissioning
18.	ExxonMobil Corporation	SUA-1139	40-8102	WY	Conventional, in decommissioning
19.	Areva NC, Inc., Lucky Mc Uranium Mill	SUA-672	40-2259	WY	Conventional, in decommissioning
20.	Pathfinder Mines Corporation	SUA-442	40-6622	WY	Conventional, in decommissioning
21.	Umetco Minerals Corporation	SUA-648	40-0299	WY	Conventional, in decommissioning

	Licensee	License Number	Docket Number	State	Notes
22.	Western Nuclear, Inc.	SUA-56	40-1162	WY	Conventional, in decommissioning

*From June 1, 2018 through September 30, 2018, the NRC had oversight responsibilities for all 22 licensees shown in the table. The State of Wyoming assumed responsibilities for uranium recovery activities located in that State on October 1, 2018. The licensees subject to NRC oversight included conventional uranium mills and uranium in situ recovery (ISR) facilities. Therefore, for the time period from October 1, 2018 to date, the NRC was responsible for regulatory oversight responsibilities for these 8 licensees.

Appendix N: Specific Radioactive Material Licenses

Case No	Date-Recd	Date Closed	Company	# of Action s	Registration No.	GA Transfe r Case	Type of Action	Source/ Device
14-05	04/24/2014	12/04/2014	GA-Elekta 0497-104	1		yes		
14-28	04/24/2014	12/04/2014	GA-Elekta 0269-104	1		yes		
14-35	04/18/2014	12/04/2014	GA-Best Vascular-101	1		yes		
14-44	05/07/2014	12/04/2014	GA-Scan Tech.-102	1		yes		
14-50	04/24/2014	12/04/2014	GA-MGP-101	1		yes		
14-57	05/16/2014	12/04/2014	GA-Scan Tech.-109	1		yes		
14-93	07/10/2014	12/04/2014	Hopewell Designs, Inc.	1				
14-20	05/13/2014	12/05/2014	GA-Metso-107	1		yes		
14-21	05/30/2014	12/05/2014	GA-Metso-108	1		yes		
15-03	10/17/2014	12/10/2014	Bruker Daltonics, Inc.	1	NR-1385-D-101-E		Amendment	Device
14-97	07/23/2014	12/10/2014	Eckert & Ziegler BEBIG, Inc.	1				
14-101	09/02/2014	12/10/2014	Smiths Detection	1				
14-15	06/06/2014	12/11/2014	GA-Metso-102	1		yes		
14-26	04/11/2014	12/11/2014	GA-Elekta 0269-102	1		yes		
14-17	05/21/2014	12/22/2014	GA-Metso-104	1		yes		
15-01	10/10/2014	01/07/2015	betacontrol of America, Inc.	2	NR-122-D-101-B and NR-122-D-102-S		Amendment	Device
15-06	10/30/2014	01/08/2015	Morpho Detection, LLC		NR-399-D-101-E		Amendment	Device
14-22	05/30/2014	01/09/2015	GA-Metso-109	1	GA-596-D-109-G	yes	Amendment	Device
14-47	05/13/2014	01/09/2015	GA-Scan Tech.-105	1	GA-716-D-105-G	yes	New Application	Device
14-104	09/24/2014	01/09/2015	Meprolight, Inc.	1	NR-1119-D-101-E		Amendment	Device
14-24	05/27/2014	01/12/2015	GA-Metso-112	1	GA-596-D-112-G	yes	New Application	Device
14-46	05/07/2014	01/12/2015	GA-Scan Tech.-104	1	GA-716-D-104-S	yes	New Application	Device
14-58	05/02/2014	01/12/2015	GA-Scan Tech.-110	1	GA-716-D-110-S	yes	Amendment	Device
14-96	07/21/2014	01/12/2015	Environics USA	1	NR-8199-D-801-E		Amendment	Device
14-18	05/09/2014	01/13/2015	GA-Metso-105	1	GA-596-D-105-G	yes	New Application	Device
14-19	05/09/2014	01/13/2015	GA-Metso-106	1		yes		
14-45	05/06/2014	01/13/2015	GA-Scan Tech.-103	1	GA-716-D-103-S	yes	New Application	Device
14-49	05/16/2014	01/14/2015	GA-Paper Making-101	1	GA-1208-D-101-G	yes	New Application	Device

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14-52	05/23/2014	01/14/2015	GA-Yokogawa-103	1	GA-678-D-103-G	yes	New Application	Device
14-56	05/16/2014	01/21/2015	Scan Technologies, Inc.	1	GA-716-D-106-G	yes	New Application	Device
14-55	05/09/2014	01/28/2015	GA-Metso-114	1		yes		
14-16	05/20/2014	01/29/2015	GA-Metso-103	1	GA-596-D-103-G	yes		Device
14-23	05/30/2014	01/30/2015	GA-Metso-111	1	GA-596-D-111-G	yes	New Application	Device
14-13	06/06/2014	02/02/2015	GA-Honeywell-102	1		yes		
15-02	10/16/2014	02/05/2015	Met One Instruments	1	NR-1124-D-102-E		Amendment	Device
14-48	05/14/2014	02/05/2015	GA-Scan Tech.-107	1	GA-716-D-107-S	yes	New Application	Device
15-07	11/17/2014	02/10/2015	Theragenics Corporation	1	NR-645-S-102-S		Amendment	Sealed Source
15-19	01/29/2015	02/10/2015	Agilent Technologies	1	NR-348-D-111-B		Amendment	Device
14-99	06/30/2014	02/10/2015	GA-Scan Tech-108	1		yes		
15-05	10/28/2014	02/12/2015	Hopewell Designs, Inc.	1	NR-1138-D-101-S		Amendment	Device
15-16	01/23/2015	03/03/2015	Rapiscan Systems, Inc.	1	NR-1267-D-102-E and 04-24011-01E		Amendment	Device
15-08	12/08/2014	03/10/2015	Trijicon, Inc.	1	NR-418-D-101-E		Amendment	Device
15-24	03/12/2015	03/17/2015	KRISS USA, Inc.	1	NR-1368-D-101-E		Amendment	Device
15-09	12/23/2014	03/25/2015	Scion Instruments	1	NR-1385-D-101-E		Amendment	Device
15-27	03/25/2015	03/31/2015	Theragenics Corporation	1	NR-645-S-102-S		Amendment	Sealed Source
15-18	01/29/2015	04/09/2015	Metso Automation USA, LLC	3	NR-596-D-110-G, NR-596-D-113-G, NR-596-D-114-G		Amendment	Device
15-04	10/24/2014	04/15/2015	Theragenics Corporation	1			New Application	Device
15-26	03/18/2015	04/22/2015	Meprolight, Inc.	1	NR-1119-D-101-E		Amendment	Device
15-10	01/05/2015	04/27/2015	Advanced Nuclide Technologies, LLC	1	Decembe 29, 2014 letter from Advanced Nuclide Technologies, LLC response to NRC letter dated October 15, 2014. 1st reviewer: Lymari Sepulveda 2nd reviewer: Tomas Herrera		New Application	

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					Continuation of SSD Case 14-85. ADAMS Package: ML15005A021			
15-20	02/10/2015	04/27/2015	Honeywell International	1	NR-571-D-107-B		Amendment	Device
15-11	01/05/2015	05/05/2015	Best Theratronics	1	NR-1307-D-101-S	No	Amendment	Device
15-22	03/09/2015	05/06/2015	SABIA, Inc.	3	SABIA's request to amend NR-1195-D- 103-S, NR-1195-D- 104-S and NR- 1195-D-105-S.	No	Amendment	Device
15-15	01/20/2015	05/14/2015	Agilent Technologies	1	NR-348-D-111-B	No	Amendment	Device
15-12	01/05/2015	05/15/2015	Best Theratronics	1	Amendment to NR- 1307-D-102-S for Gammacell 1000 Elite and Gammacell 3000 Elan.	No	Amendment	Device
15-21	03/02/2015	05/29/2015	Enviro-nics (USA), Inc.	3	NR-1160-D-101-E, NR-1160-D-102-E & NR-1160-D-103- E	No	Inactivation	Device
15-35	05/22/2015	05/29/2015	International isotopes, Inc.	1	NR-1235-S-101-S	No	Amendment	Sealed Source
15-31	05/11/2015	06/03/2015	Northpass, Ltd.	1	NR-1382-D-101-E 05-35121-01E	No	Amendment	Device
15-23	03/10/2015	06/04/2015	Eckert & Ziegler BEBIG, Inc.	1			New Application	Sealed Source
15-34	05/20/2015	06/11/2015	Safran Morpho Detection	1	NR-399-D-101-E	No	Amendment	Device
15-38	06/10/2015	06/11/2015	Eckert & Ziegler BEBIG, Inc.	1	NR-1289-S-101-S	No	Amendment	Sealed Source

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15-14	01/22/2015	06/24/2015	Yokogawa Corporation of America	1	NR-678-D-103-G	No	Amendment	Device
15-13	01/13/2015	06/29/2015	Bruker Detection Corporation	1	NR-1101-D-102-E	No	Amendment	Device
15-17	01/28/2015	07/10/2015	Armson USA, LLC	1		No	New Application	Sealed Source
15-30	04/29/2015	07/13/2015	DRS Sustainment Systems, Inc.	1	NR-1224-D-101-E	No	Amendment	Device
15-39	06/15/2015	07/17/2015	Best Theratronics	3	NR-1307-D-103-S, NR-1307-D-106-S, NR-1307-D-109-S	No	Amendment	Device
15-25	03/13/2015	08/03/2015	KRISS USA, Inc.	1	NR-1368-D-101-E	No	Amendment	Device
15-37	06/10/2015	08/03/2015	Kidde Residential and Commercial	1	Amendment of registration certificate NR-1047-D-101-E and E-License 32-23858-01E.	No	Amendment	Device
15-42	07/08/2015	09/02/2015	Isolite Corporation	1	NR-1286-D-102-E	No	Amendment	Device
15-46	08/17/2015	09/09/2015	Elekta, Inc.	3	NR-269-D-101-S, NR-269-D-102-S, NR-497-D-104-S	No	Inactivation	Device
15-33	05/14/2015	10/08/2015	Triple, Inc. DBA	1	NR-1412-D-101-E	No	New Application	Device
15-28	04/21/2015	10/09/2015	Best Theratronics	1	Best Theratronics Application for a New Teletherapy Unit	No	New Application	Device
15-36	05/27/2015	10/09/2015	Unertl Optical Company, Inc.	1	NR-1200-D-101-E	No	Amendment	Device
15-47	09/01/2015	10/13/2015	Elekta, Inc.	1	NR-497-S-113-S	No	Amendment	Sealed Source
15-48	09/09/2015	10/13/2015	Valmet, Inc.	3	Amendment of registration certificates: NR-596-D-110-G, NR-596-D-113-G and NR-596-D-114-G to transfer ownership.	No	Amendment	Device
15-40	06/17/2015	10/15/2015	CSECO	1	New	No	New Application	Device

Case No	Date-Recd	Date Closed	Company	# of Action s	Registration No.	GA Transfe r Case	Type of Action	Source/ Device
15-29	04/27/2015	10/16/2015	Scan Technologies, Inc.	1	NR-716-D-110-S	No	Amendment	Device
15-49	09/17/2015	10/16/2015	International Isotopes, Inc.	1	NR-1235-S-101-S	No	Amendment	Sealed Source
15-43	08/07/2015	10/21/2015	Walter Kidde	1	NR-1047-D-101-E NR-8299-D-801-E	No	Inactivation	Device
15-32	05/13/2015	11/02/2015	Cammenga and Associates, LLC	1	NR-210-D-102-E	No	Amendment	Device
16-04	11/02/2015	11/09/2015	Scan Technologies	1	NR-0716-D-110-S		Amendment	Device
15-41	06/25/2015	12/02/2015	Elekta, Inc.	1	NR-269-D-104-S	No	Amendment	Device
15-44	08/11/2015	12/02/2015	Honeywell International	4	NR-571-D-104-B, NR-571-D-105-B, NR-571-D-106-B and NR-571-D-107-B.	No	Amendment	Device
16-07	12/01/2015	12/03/2015	mb microtec	1	NR-0446-D-103-E		Amendment	Device
15-50	09/30/2015	01/15/2016	Smiths Detection - Edgewood, MD	1	NR-0163-D-102-E	No	Amendment	Device
15-45	08/12/2015	01/28/2016	Cammenga and Associates, LLC	1	NR-210-D-102-E	No	Amendment	Device
16-01	10/16/2015	02/04/2016	Yokogawa Corporation of America	1	NR-0678-D-103-G	No	Amendment	Device
16-02	10/26/2015	02/19/2016	Department of the Army	9	NR-0155-S-114-S; NR-0155-S-104-S; NR-0155-S-110- SNR-0155-S-116- S;NR-0155-S-111- S;NR-0155-S-115- S;NR-0155-S-113- S;NR-0155-S-112- S;NR-0155-D-126- S;		Amendment	Source/ Device
16-08	12/10/2015	02/25/2016	Sabia, Inc.	3	NR-1195-D-103-S NR-1195-D-104-S NR-1195-D-105-S		Amendment	
16-03	10/30/2015	03/03/2016	Scan Technologies	1	NR-0716-D-110-S		Amendment	Device
16-11	02/04/2016	03/03/2016	International Isotopes	1	NR-1235-S-104-S		Amendment	Source/ Device
16-05	11/17/2015	03/17/2016	Hess Fine Arts, Inc	1	NR-1265-D-101-E		Amendment	Device

Case No	Date-Recd	Date Closed	Company	# of Actions	Registration No.	GA Transfer Case	Type of Action	Source/Device
16-14	02/11/2016	03/17/2016	Elekta	1	NR-0469-D-115-S		Amendment	Source/Device
16-12	02/09/2016	03/18/2016	Theragenics Corporation	2	NR-0645-S-101-S NR-0645-S-102-S		Amendment	Source/Device
16-17	03/21/2016	04/25/2016	Nordion (Canada) Inc.	1	NR-0220-D-131-S		Amendment	Source/Device
16-15	03/07/2016	04/26/2016	Nordion (Canada) Inc.	1	Nordion is requesting a new SSD registration.		New Application	Source/Device
16-13	02/03/2016	04/28/2016	Gases 101 LLC	1	New Registration and E-License SSD Registration Certificate NR-1417-D-101-E		New Application	Source/Device
16-06	11/17/2015	05/10/2016	Hopewell Designs	1	NR-1138-D-101-S		Amendment	Device
16-09	12/16/2015	05/20/2016	Tech Comp USA dba Scion Instruments	1			Discontinuation (Amendment)	
16-10	01/28/2016	05/24/2016	IMS Systems, Inc.	1	NR-1120-D-101-S		Amendment	Sealed Source
16-19	04/26/2016	05/26/2016	Teledyne Advanced Pollution Instrumentation	1	NR-1335-D-101-E		Amendment	Sealed Source
16-16	03/08/2016	06/02/2016	Triple, Inc. dba Nixon	1	NR-1412-D-101-E		Amendment	Source/Device
16-24	06/16/2016	06/27/2016	Raytheon Elcan Optical Technologies	1	NR-8304-D-801-E		Inactivation	
16-21	05/25/2016	07/11/2016	Best Medical International	1			Amendment	Sealed Source
16-26	06/17/2016	07/18/2016	Rapiscan Systems, Inc.	1	NR-1267-D-102-E		Amendment	Sealed Source
16-18	04/08/2016	07/20/2016	CSECO Security Equipment Company	1	NR-0207-D-102-E		New Application	Device
16-22	06/07/2016	09/12/2016	Smiths Detection	1	NR-0163-D-102-E		Amendment	Device
16-23	06/10/2016	09/12/2016	Scan Technologies, Inc.	1	NR-0716-D-106-G		Amendment	Device
16-35	09/12/2016	09/16/2016	Nordion	2	NR-0220-S-120-S and NR-0220-S-103-S		Amendment	Sealed Source

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16-32	08/18/2016	09/20/2016	Elekta	1	NR-0469-D-114-S ADAMS Package No. ML16231A321 License No. ML16264A038 Letter ML16264A031		Amendment	Source/ Device
16-28	06/23/2016	09/27/2016	AmeriGlo, LLC	1	NR-1236-D-102-E (this SSD was superseded by NR- 1420-D-101-E issued with the letter).		Amendment	Device
16-20	05/03/2016	09/28/2016	APS Technology	1	NR-1419-D-101-S		Amendment	Device
16-31	08/11/2016	09/28/2016	Cammenga an Associates	1	NR-0210-D-102-E		Amendment	Source/ Device
16-30	08/09/2016	10/20/2016	Capintec, Inc.,	1	NR-0218-S-101-S		Inactivation	Sealed Source
17-01	10/03/2016	11/08/2016	Rapiscan Systems, Inc.	1	NR-1267-D-102-E		Amendment	Device
16-36	09/21/2016	11/21/2016	BWX Technologies, Inc.	1	NR-1375-S-101-S		Amendment	Sealed Source
16-25	06/16/2016	11/23/2016	Hopewell Designs Inc	1	NR-1138-D-109-S		New Application	Sealed Source
16-27	06/23/2016	12/05/2016	Advanced Combat Solutions	1	NR-1421-D-101-E		New Application	Sealed Source
16-29	07/13/2016	12/14/2016	SEE Co	1	NR-1112-S-103-S		New Application	Sealed Source
17-06	12/05/2016	01/04/2017	Scan Technologies	2	NR-0716-D-109-S NR-0716-D-106-G		Inactivation	Source/ Device
17-10	12/20/2016	01/11/2017	Hopewell Designs	1	NR-1138-D-101-S		Amendment	Source/ Device
16-33	08/22/2016	01/17/2017	U.S. Air Force	1	NR-0121-D-103-S		Inactivation	Source/ Device
16-37	09/26/2016	01/26/2017	TechComp/Scion Instruments	1	NR-1385-D-101-E		Amendment	Device
17-03	10/26/2016	01/31/2017	Chemring Detection Systems	1	NR-1280-D-101-E		Amendment	Device

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16-34	08/23/2016	02/08/2017	Valmet, Inc.	1	NR-0596-D-113-G		Amendment	Device
17-07	12/09/2016	02/13/2017	Nordion	1	NR-0220-D-131-S		Amendment	Device
17-04	11/04/2016	03/06/2017	Cammenga and Associates, LLC	1	NR-0210-D-102-E		Amendment	Source/ Device
17-02	10/26/2016	03/28/2017	Hess Fine Arts	1	NR-1265-D-101-E		Amendment	Source/ Device
17-05	11/10/2016	04/06/2017	Northpass, Ltd.	1	NR-1382-D-101-E		Amendment	Source/ Device
17-08	12/12/2016	04/25/2017	Cammenga and Associates	1	NR-0210-D-102-E NR-0210-D-101-E		Amendment	Device
17-11	01/03/2017	04/26/2017	Northpass, Ltd.	1	NR-1382-D-101-E		Amendment	Source/ Device
17-09	12/15/2016	05/26/2017	Cammenga and Associates	1			New Application	Source/ Device
17-23	05/17/2017	06/05/2017	Bruker Detection	1	NR-1101-D-102-E		Amendment	Source/ Device
17-16	04/03/2017	06/07/2017	MGP Instruments	1	NR-1147-D-101-S NR-1147-D-102-S (see note below)		Amendment	Source/ Device
17-15	03/29/2017	06/08/2017	Cammenga and Associates	1	NR-0210-D-102-E		Amendment	Source/ Device
17-18	04/13/2017	06/30/2017	Agilent Technologies	1	NR-0348-D-111-B		Amendment	Source/ Device
17-13	02/17/2017	07/13/2017	See Co.	2	NR-1112-S-101-S - merge with State of Texas issued certificate TX-1112- S-102-S and update NR- 1112-S-103-S		Amendment	Sealed Source
17-14	03/13/2017	07/13/2017	Nordion	1			New Application	Sealed Source
17-29	06/26/2017	07/25/2017	Elekta	1	NR-0269-S-103-S		Amendment	Sealed Source
17-35	07/24/2017	08/18/2017	Ameriglo	1	NR-1420-D-101-E		Amendment	Source/ Device
17-20	05/04/2017	08/21/2017	Hopewell Designs	1	NR-1138-D-102-S		Amendment	Source/ Device

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17-22	05/10/2017	08/21/2017	Smiths Detection (formerly Morpho Detection)	1	NR-0399-D-101-E		Amendment	Source/ Device
17-28	06/08/2017	08/23/2017	Gases 101	1	NR-1417-D-101-E		Amendment	Device
17-34	07/24/2017	08/24/2017	Hopewell Designs	8	NR-1138-D-101-S NR-1138-D-102-S NR-1138-D-103-S NR-1138-D-104-S NR-1138-D-105-S NR-1138-D-106-S NR-1138-D-107-S NR-1138-D-108-S		Amendment	Source/ Device
17-17	04/10/2017	08/29/2017	IUT USA, LLC	1			New Application	Sealed Source
17-30	06/26/2017	08/29/2017	Cammenga and Associates	2	NR-0210-D-101-E NR-0210-D-102-E		Amendment	Source/ Device
17-36	08/07/2017	09/07/2017	Nordion (Canada) Inc.	1	NR-0220-D-131-S		Amendment	Source/ Device
17-21	05/11/2017	09/13/2017	North Pass, Ltd., DBA HI-VIZ Shooting Systems	1	NR-1382-D-101-E		Amendment	Source/ Device
17-25	05/31/2017	09/14/2017	Advanced Combat Solutions	1	NR-1421-D-101-E		Amendment	Source/ Device
17-27	06/07/2017	09/22/2017	Hopewell Designs	1	NR-1138-D-190-S		New Application	Source/ Device
17-26	05/31/2017	09/26/2017	mb-microtec	1			Discontinuation (New Application)	Sealed Source
17-19	04/18/2017	10/10/2017	Betacontrol of America, Inc.	1	NR-0122-D-102-S		Amendment	Device
17-32	07/14/2017	10/17/2017	Valmet	1	NR-0596-D-113-S		Amendment	Source/ Device
17-24	05/30/2017	10/19/2017	Nordion (Canada) Inc.	1	NR-0220-S-103-S		Amendment	Sealed Source
17-33	07/25/2017	10/24/2017	Hopewell Designs	1			New Application	Source/ Device
17-31	06/26/2017	10/25/2017	Department of the Army	1	NR-0155-S-116-S		Amendment	Sealed Source
17-44	09/26/2017	11/16/2017	Hopewell Designs, Inc.	1	NR-1138-D-101-S		Amendment	Source/ Device

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17-38	08/03/2017	11/28/2017	Endress + Hauser	1	NR-1302-D-101-B		Amendment	Source/ Device
17-43	09/19/2017	11/30/2017	Leidos	1	NR-1373-D-101-E		Amendment	Device
18-03	11/06/2017	12/11/2017	Sig Sauer, Inc.	1			New Application	Device
18-07	11/22/2017	12/12/2017	GMI OpCo., dba Global Medical Instrumentation and GMI	1			Discontinuation (New Application)	Source/ Device
17-39	08/15/2017	12/19/2017	Rapiscan Systems, Inc. (formerly Morpho Detection, LLC)	1	NR-0399-D-101-E		Amendment	Source/ Device
17-41	09/14/2017	01/04/2018	Theragenics Corporation	2	NR-0645-S-101-S NR-0645-S-102-S		Amendment	Sealed Source
17-40	08/23/2017	01/09/2018	Eckert and Ziegler Bebig	2	NR-1289-S-101-S NR-1289-S-102-S		Inactivation	Sealed Source
17-37	08/08/2017	01/16/2018	Valco Instruments Company	1			New Application	Source/ Device
18-01	10/06/2017	01/19/2018	Nordion	2	IL-1082-S-101-S IL-1082-S-103-S		Amendment	Sealed Source
17-42	09/15/2017	01/23/2018	SEE Co.	2	NR-1112-S-103-S		Amendment	Sealed Source
18-04	11/08/2017	01/30/2018	North Pass, Ltd., DBA Hi-Viz Shooting Systems	1	NR-1138-D-101-S		Amendment	Source/ Device
18-11	01/02/2018	02/20/2018	Meprolight	1	NR-1119-D-101-E		Amendment	Source/ Device
18-15	02/01/2018	02/27/2018	AIS Gauging	1			New Application	Source/ Device
18-16	02/06/2018	03/05/2018	Ameriglo	1	NR-1420-D-101-E		Amendment	Source/ Device
18-14	01/31/2018	03/13/2018	Hopewell Designs	1	NR-1138-D-110-S.		Amendment	Source/ Device
18-17	02/05/2018	03/13/2018	Nordion	1	NR-0220-D-131-S		Amendment	Source/ Device
18-08	12/04/2017	03/27/2018	Advanced Combat Solutions	1			Amendment	Device
18-02	10/10/2017	03/29/2018	GE HealthCare - Transfer from State of TX	2	TX-1032-D-103-S TX-1032-D-104-S		Amendment	Source/ Device
18-05	11/13/2017	04/19/2018	TRUGLO	1	NR-1180-D-101-E		Amendment	Device
18-12	12/14/2017	05/01/2018	Kidde-Fenwal	1	NR-0668-D-101-E		Inactivation	Source/ Device

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18-06	11/27/2017	05/15/2018	Techcomp, USA	1	NR-1385-D-101-E		Amendment	Source/ Device
18-13	01/19/2018	06/07/2018	Endress + Hauser	1	NR-1032-D-101-B		Amendment	Source/ Device
18-23	05/03/2018	06/07/2018	Leidos	1	NR-1373-D-101-E		Amendment	Source/ Device
18-25	05/23/2018	06/07/2018	Tenova, Inc.	2	NR-0396-D-101-B NR-0396-D-102-B		Inactivation	Source/ Device
18-10	01/02/2018	06/14/2018	IMS Systems, Inc.	1	NR-1120-D-101-S		Amendment	Source/ Device
18-22	04/26/2018	06/19/2018	mb microtec, USA	1	NR-0446-D-103-E		Amendment	Device
18-09	01/02/2018	06/21/2018	Rapiscan Systems (formerly Morpho Detection)	1	NR-0399-D-101-E		Amendment	Source/ Device
18-20	04/06/2018	06/27/2018	Hopewell Designs	1			New Application	Source/ Device
18-21	04/25/2018	07/17/2018	Agilent Technologies	1	NR-0348-D-111-B		Amendment	Source/ Device
18-27	06/07/2018	07/24/2018	Trijicon	1	NR-0418-D-101-E		Amendment	Device
18-18	02/23/2018	07/26/2018	Meprolight, Inc.	1	NR-1119-D-101-E		Amendment	Device
18-28	06/22/2018	07/27/2018	AmeriGlo	1	NR-1420-D-101-E		Amendment	Device
18-19	03/27/2018	08/06/2018	HI-VIZ Shooting Systems	1	NR-1382-D-101-E		Amendment	Device
18-31	07/10/2018	08/21/2018	Triple, Inc., dba Nixon	1	NR-1412-D-101-E		Inactivation	
18-29	06/28/2018	08/28/2018	Honeywell International	1	NR-0571-D-107-B		Amendment	Device
18-30	07/09/2018	08/29/2018	RAM Services, Inc.	1	NR-1370-D-101-S		Inactivation	Device
18-24	05/04/2018	09/06/2018	Sig Sauer	1	NR-1487-D-101-E		Amendment	Device
18-37	08/14/2018	09/13/2018	Marathon Watch Company	1	NR-0505-D-101-E		Amendment	Device
18-26	06/04/2018	09/20/2018	Nordion	1	NR-0220-D-1313-S		Amendment	
18-39	08/22/2018	09/27/2018	Symetrica	1			New Application	Device
18-41	09/17/2018	10/01/2018	IUT USA, LLC	1	NR-1425-S-101-S		Inactivation	Sealed Source
18-36	08/09/2018	10/04/2018	Agilent Technologies	1	NR-0348-D-111-B		Amendment	Device
18-40	09/13/2018	10/09/2018	Cammenga & Associates	1	NR-0210-D-102-E		Amendment	Device
18-32	07/19/2018	10/10/2018	Teledyne API	1	NR-1335-D-101-E		Inactivation	Device
18-42	09/21/2018	10/18/2018	mb microtec	1	NR-0446-D-103-E		Amendment	Device
19-05	10/16/2018	10/30/2018	Meprolight	1	NR-1119-D-101-E		Amendment	Device
18-33	07/19/2018	11/06/2018	Cammenga and Associates	1	NR-0210-D-101-E		Amendment	Device

Case No	Date-Recd	Date Closed	Company	# of Action s	Registration No.	GA Transfe r Case	Type of Action	Source/ Device
18-38	08/21/2018	11/08/2018	Hi-Viz	1	NR-1382-D-101-E		Amendment	Device
19-04	10/15/2018	11/13/2018	Hopewell Designs	1	NR-1138-D-105-S		Amendment	Device
19-06	10/24/2018	11/16/2018	International Isotopes	1	NR-1235-S-103-S		Inactivation	Sealed Source
18-34	07/27/2018	11/27/2018	Trijicon	1	NR-0418-D-101-E		Amendment	Device
18-35	08/06/2018	11/27/2018	Owlstone	1	NR-1321-D-101-E		Amendment	Device
19-09	11/06/2018	11/29/2018	Sig Sauer	1	NR-1487-D-101-E		Amendment	Device
19-13	01/15/2019	01/24/2019	mb-microtec USA	1	NR-0446-D-103-E		Amendment	Device
19-15	01/23/2019	02/05/2019	Qual-X Inc.	1	NR-0556-S-101-S		Inactivation	Sealed Source
19-12	01/04/2019	02/13/2019	Malvern Panalytical	1	NR-1348-D-101-S		Inactivation	Device
18-44	09/27/2018	02/28/2019	AIS Gauging	1			New Application	Device
19-08	11/06/2018	03/05/2019	Sig Sauer	1	NR-1487-D-101-E		Amendment	Device
18-43	09/25/2018	03/05/2019	Williams Gun Sight Company	1			New Application	Device
19-02	10/02/2018	03/07/2019	Varian Medical Systems, Inc.	1			New Application	Device
19-03	10/02/2018	03/07/2019	Varian Medical Systems, Inc.	1			New Application	Sealed Source
19-16	02/06/2019	03/07/2019	Elekta, Inc.	4	NR-0497-S-107-S NR-0497-D-108-S NR-0497-D-114-S NR-0497-D-115-S		Amendment	Device
19-01	10/03/2018	03/12/2019	Hopewell Designs	1			New Application	Device
19-11	12/11/2018	04/04/2019	Sig Sauer	1	NR-1487-D-101-E		Amendment	Device
19-10	12/06/2018	04/11/2019	KH Imports	1			New Application	Device
19-07	11/05/2018	04/16/2019	Symetrical, Inc.	2			New Application	Device
19-20	03/07/2019	04/17/2019	Eyl, Inc.	1			Discontinuation (New Application)	Device
19-17	02/21/2019	05/08/2019	Nordion	1	NR-0220-S-103-S		Amendment	Sealed Source
19-14	01/23/2019	05/23/2019	Hopewell Designs	1			Discontinuation (New Application)	Device

Case No	Date-Recd	Date Closed	Company	# of Action s	Registration No.	GA Transfe r Case	Type of Action	Source/ Device
19-24	04/03/2019	05/23/2019	Sabia, Inc	3	NR-1195-D-103-S NR-1195-D-104-S NR-1195-D-105-S		Amendment	Device
19-25	04/15/2019	06/10/2019	Elekta	1	NR-0269-S-103-S		Amendment	Sealed Source
19-28	06/04/2019	06/13/2019	Meprolight, Inc.	1	NR-1119-D-101-E		Amendment	
19-22	03/12/2019	07/01/2019	Owlstone	1	NR-1321-D-101-E		Amendment	Device
19-19	03/05/2019	07/03/2019	Halliburton Energy Services	2	NR-0340-D-101-G		Amendment	Device
19-18	02/21/2019	07/16/2019	XS Sight Systems, Inc.	1	NR-1500-D-101-E (New)		New Application	Device
19-31	06/20/2019	08/05/2019	Sig Sauer, Inc.	1	NR-1487-D-101-E		Amendment	Device
19-32	06/19/2019	08/12/2019	Symetrika Inc.	1	NR-1498-D-101-E		Amendment	Device
19-34	07/15/2019	08/14/2019	AmeriGlo Holdings, LLC	1	NR-1420-D-101-E		Amendment	Device
19-21	03/05/2019	08/19/2019	Cammenga and Associates	1	NR-0210-D-102-E		Amendment	Device
19-23	03/11/2019	08/19/2019	Cammenga and Associates	1	NR-0210-D-101-E		Amendment	Device
19-33	06/27/2019	08/27/2019	Gases-101 LLC	1	NR-1417-D-101-E		Amendment	Device
19-26	04/22/2019	09/12/2019	Advanced Combat Solutions Inc.	1	NR-1421-D-101-E		Amendment	Device
19-27	04/30/2019	10/11/2019	Ohio Lumex Co.	1	New Lic No. 34- 35549-01E		New Application	Device
19-30	06/17/2019	11/19/2019	Thermo Fisher Scientific	1	NR-1234-D-101-E		Amendment	Device
19-29	06/05/2019	11/22/2019	IMS Systems, Inc.	1	NR-1120-D-101-S		Amendment	Device
19-39	09/16/2019	12/10/2019	STEP Analytics USA, Inc		NR-1403-D-101-E		Inactivation	Device
19-36	07/25/2019	12/12/2019	mb microtec USA, Inc	1	NR-0446-D-103-E		Amendment	Device
19-35	07/22/2019	12/18/2019	Varian Medical Systems	1	NR-1496-D-102-S		Amendment	Device
19-40	09/25/2019	01/15/2020	International Isotopes Inc.		NR-1235-S-107-S		Amendment	Sealed Source
20-03	11/14/2019	01/16/2020	XS Sights	1	NR-1500D-101-E		Amendment	Device
19-37	09/05/2019	01/29/2020	Phoenix, LLC		NR-1503-D-101-S		New Application	Device
20-09	01/10/2020	02/03/2020	BWX Technologies, Inc.	1	NR-1490-D-101-S		Amendment	Device
20-10	01/28/2020	02/04/2020	Ohio Lumex Co., Inc.	1	NR-1502-D-101-E		Amendment	Device
20-04	11/14/2019	02/10/2020	Voith Paper	1	NR-1231-D-101-B		Amendment	Device
20-06	12/17/2019	02/12/2020	Honeywell International, Inc.	3	NR-0571-D-104-B, NR-0571-D-105-B, NR-0571-D-107		Amendment	Device

Case No	Date-Recd	Date Closed	Company	# of Action s	Registration No.	GA Transfe r Case	Type of Action	Source/ Device
20-01	10/10/2019	02/26/2020	Cammenga & Associates	1	NR-0210-D-101-E		Amendment	Device
19-38	09/09/2019	03/03/2020	Cammenga and Associates, LLC		NR-0210-D-103-E		New Application	Device
17-12	02/10/2017	03/10/2020	Harrison Reed, Inc.	1			New Application	
20-07	12/26/2019	03/12/2020	Elekta	2	NR-0479-D-110-S and NR-0479-S-113-S		Inactivation	Device
20-02	11/15/2019	03/16/2020	ChemPro Technologies Inc.	1	NR-1417-D-101-E		Amendment	Device
20-15	03/31/2020	04/08/2020	Betacontrol of America, Inc.	2	NR-0122-D-101-B and NR-0122-D-103-B		Inactivation	Device
20-08	12/31/2019	04/09/2020	Halliburton Energy Services, Inc.	1	NR-0340-D-102-S		Amendment	Device
20-11	02/06/2020	05/04/2020	Nordion	1	NR-0220-S-132-S		Amendment	Sealed Source
20-05	12/16/2019	06/08/2020	Hopewell Designs, Inc.				New Application	Device
20-13	02/12/2020	06/22/2020	KH Imports, LLC	1	NR-1497-D-101-E		Amendment	Device
20-12	02/07/2020	07/13/2020	Voith US Inc.	1	NR-1231-D-101-B		Amendment	Device
20-19	05/29/2020	07/29/2020	Bruker Detection Corporation	1	NR-1101-D-102-E		Amendment	Device
20-16	04/07/2020	08/10/2020	Hopewell Designs, Inc.	1	NR-1138-D-113-S		New Application	Device
20-14	02/27/2020	08/12/2020	AIS Gauging	5	NR-1494-D-102-B, NR-1494-D-103-B, NR-1494-D-104-B, NR-1494-D-105-B, NR-1494-D-106-G		Amendment	Device
20-20	06/08/2020	08/26/2020	Elekta	1	NR-0497-D-115-S		Amendment	Device
20-30	08/12/2020	08/26/2020	Theragenics Corporation	1	NR-0645-D-104-S		Inactivation	Device
20-31	08/19/2020	09/10/2020	EADS Sodern North America, Inc.		NR-1077-D-101-S		Inactivation	Device
20-29	08/07/2020	09/15/2020	Rapiscan Systems	1	NR-1267-D-102-E		Inactivation	Device
20-32	09/01/2020	09/15/2020	Siemens Industry, Inc.		NR-0172-D-101-E		Inactivation	Device
20-34	09/18/2020	09/24/2020	Hess Fine Arts, Inc.		NR-1265-D-101-E		Inactivation	Device
20-27	08/07/2020	09/30/2020	Trijicon, Inc.	1	NR-0418-D-101-E		Amendment	Device
20-35	09/18/2020	09/30/2020	Trijicon, Inc		NR-0418-D-101-E		Amendment	Device
20-17	05/13/2020	10/16/2020	CivaTech Oncology (NC TAR)	1	NC 1311-S-102-S		Amendment	Sealed Source
20-28	08/10/2020	10/16/2020	Hi-Viz, LLC	1	NR-1382-D-101-E		Amendment	Device

Case No	Date-Recd	Date Closed	Company	# of Action s	Registration No.	GA Transfe r Case	Type of Action	Source/ Device
20-23	07/09/2020	10/19/2020	Hi-Viz, LLC	1	NR-1382-D-101-E		Amendment	Device
20-18	05/28/2020	10/27/2020	Cammenga & Associates, LLC	1	NR-0210-D-101-E		Discontinuation (Amendment)	Device
20-26	07/31/2020	11/09/2020	PerkinElmer, Inc.	1	NR-0536-D-110-B		Amendment	Device
20-21	06/11/2020	11/20/2020	Mirion Technologies (Canberra), Inc.	1	NR-1505-D-101-S		New Application	Device
20-24	07/21/2020	11/23/2020	Troxler Electronic Labs, Inc	1	NR-0646-D-140-E		Amendment	Device
20-22	06/25/2020	12/04/2020	Hopewell Designs, Inc.	1	NR-1138-D-106-S		Amendment	Device
20-25	07/22/2020	12/08/2020	Nordion (Canada), Inc.	1	NR-0220-S-136-S		New Application	Sealed Source
20-33	09/02/2020	12/16/2020	International Isotopes, Inc.	1	NR-1235-S-108-S		Amendment	Sealed Source
21-02	10/13/2020	01/25/2021	BWX Technologies, Inc.	1	NR-1490-D-101-S		Amendment	Device
21-07	12/09/2020	02/03/2021	Valmet, Inc.	1	NR-0596-D-110-G		Inactivation	Device
21-06	12/04/2020	02/11/2021	Nordion	1	NR-0220-S-120-S		Amendment	Sealed Source
20-36	09/29/2020	02/22/2021	Alliant Techsystems (ATK) Operations	1	NR-1336-E-101-S		Amendment	Device
21-01	10/05/2020	03/18/2021	Hopewell Designs, Inc.	1	NR-1138-D-107-S		Amendment	Device
21-03	10/14/2020	03/25/2021	Hopewell Designs, Inc.	1	NR-1138-D-114-S		New Application	Device
21-04	10/29/2020	03/31/2021	International Isotopes, Inc	1	NR-1235-S-107-S		Amendment	Sealed Source

Appendix O: Major, Unusual, or Complex Licenses

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
Complex Materials Decommissioning						
JPG			Major amendments –amendment 19, amendment 20 (which transition the JPG license to possession only status),			
Sigma			Amendment 20			
Centrus Final Status Survey Report			Amendment 16			
Hematite			License terminated			
General Atomics			License terminated			
FMRI/Fansteel			Currently in bankruptcy.			
Cimarron			Cimarron was also in bankruptcy, but the Cimarron Environmental Response Trust was established to fund decommissioning activities at that site			
Uranium Recovery						
Uranium One U.S.A. Ludeman expansion	SUA-1341		Major amendments. Used the opportunity for hearing issuance as the differentiator between major and minor.			
Homestake Zeolite			Major amendments. Used the opportunity for hearing issuance as the differentiator between major and minor.			
Power Resources, Inc	SUA-1548		License renewed			
Kennecott Uranium Co.	SUA-1650		License renewed			
American Nuclear Corporation*			Decommissioning.			
Homestake Mining of California	SUA-1471		Decommissioning.			
Rio Algom Mining LLC	SUA-1473		Decommissioning.			
Sequoyah Fuels Corporation	SUB-1010		Decommissioning.			

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
UNC Mining and Milling, Division of United Nuclear Corporation	SUA1475		Decommissioning.			
Bear Creek Uranium Company*	SUA-1310		Decommissioning.			
ExxonMobil Corporation*	SUA-1139		Decommissioning.			
Areva NC, Inc., Lucky Mc Uranium Mill*	SUA-672		Decommissioning.			
Pathfinder Mines Corporation*	SUA-442		Decommissioning.			
Umetco Minerals Corporation*	SUA-648		Decommissioning.			
Western Nuclear, Inc.*	SUA-56		Decommissioning.			
American Nuclear Corporation	SUA-667		Unusual or complex license. There is one Uranium Recovery facility in Wyoming that is undergoing decommissioning which did not transfer to Wyoming when they received their Agreement State status: American Nuclear Corporation (ANC). In October 2017, the Commission approved the NRC staff's recommendation for the NRC to retain regulatory authority over the ANC site under the anticipated limited Section 274b Agreement with Wyoming (Staff Requirements Memorandum SECY-17-0081) (Agency-wide Documents Access and Management System (ADAMS) Accession Number ML17277A783).			

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
Region I						
ECS MidAtlantic	19-31462-01		Renewal	624032	03/02/2021	03121
US Inspection & NDT	37-35583-01		Initial	617182	04/01/2020	03320
Insight Group	39-35623-01		Initial, Required AS License Amendment	624214	03/22/2021	03120
Marshall County Coal Ohio County Coal Harrison County Coal	34-35134-01 34-35134-02 34-35134-03		Change of Control as a result of Bankruptcy	622731 622734 622737	08/31/2020	03120
Steris Isomedix PR	52-24994-01		Authorization to load sources	624348	05/11/2021	03521
Argo USA	47-11451-01		RSO Changeout	624196	02/02/2021	03120
Hanna & Assoc.	47-35034-01		Termination	624149	01/22/2021	03121
Aquatek Labs	06-35588-01		New License	618170	05/05/2020	03620
Del Valle Group	52-31423-01		Renewal	624254	02/17/2021	03121
Summersville Regional Medical Center	47-31126-01		Change of Control	611667	06/28/2019	02120
Norwalk, Sharon, Danbury, New Milford Hospitals	06-06941-01 06-08020-02 06-08544-01 06-17892-01		Quadruple COC	611910 611719 611915 611918	08/13/2019	02230 to 02121
Department of the Navy	45-23645-01NA		Exemption request for Am241 target analyzers	618050	07/27/2020	03614
Marshall Miller	45-17195-01		Request removal of portable gauges	615962	10/02/2019	03111
DuPont	07-13441-02		Merger of RI license with RIII license	611166	07/11/2019	03610

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
USUHS	19-08330-02		Add individual with limited quals as RSO	613742 613743	10/03/2019	03610
Cardinal Health	34-32780-02		FA	600618	11/20/2017	03210
DMY Capitol, LLC	08-35186-01		Term	602533	12/05/2017	03121
Dept of the Army	STB-1579		Renew	601287	01/10/2018	11300
System One Holding	37-27891-02		Renew	608570	07/15/2018	03320
TVA	41-68		FA	600223	10/27/2017	03226
Hartford Cardiology Group;	06-31314-02		Term	601413	01/10/2018	02201
PharmaLogic Ltd.	44-30124-01MD		Add Ge-68/Ga-68 generator and financial assurance	609115 and 609189	08/07/2018	02500
Johnson Memorial Hospital, Inc.	06-16624-01		Bankruptcy and change of control	589520	12/31/2015	02120
Patriot Coal Corporation	47-23023-01 47-23053-01 47-24809-01 47-24917-01 47-31315-01		Bankruptcy	587031 587032 587033 587034 587037 587038	01/27/2017	03120
Brooks Run Mining Company	47-25581-02		Bankruptcy Change of Control	588674 591420	10/17/2016	03120
Highland Mining Company	47-30927-01		Bankruptcy Change of Control	588677 591422	10/14/2016	03120
Power Mountain Contura, LLC	47-25566-01		Term	609852	09/26/2018	03120
Drexel University	37-04594-01		Term	592741	02/01/2017	03123
Karos Pharmaceuticals, Inc.	31-31441-01		Term	600290	08/10/2017	03620

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
The George Washington University	08-00216-02		Renew	592229	03/06/2017	04618
Region III						
Ionetix Corporation	04-35412-01	Other	New License. Radionuclide Production Using an Accelerator, Research and Development	593155	7/31/17	03210, 03620
Michigan State University	21-00021-31	Type A	New License. Radionuclide Production Using an Accelerator, Research and Development Broad	594327	3/17/17	03210, 03610
Reliable Testing Services, LLC	24-35592-01		New License. Radiography	618587	7/6/20	03320
POINT Biopharma U.S., Inc.	13-35593-01		New License. Research and Development Other, Medical Institution Broad	621132	3/10/21	03620, 02110
Roush Industries, Inc.	21-35539-01	Other	New License. Research and Development	613919	11/15/19	03620
WMU Homer Stryker M.D. School of Medicine	21-35421-01	Other	New License. Research and Development	594556	7/7/17	03620
EBV Explosives Environmental Company d/b/a General Dynamics Ordnance and Tactical Systems, Munition Services	SUB-9939	Other Greater than 150 kg	New License. Source Material	608993	8/30/18	11300
Niowave, Inc.	21-35144-04	Research and Development - Other	New License. SNM U-235 and/or U-233 unsealed, less than a critical mass, Manufacturing and Distribution – Other,	621136	1/20/21	22111, 03214, 03620
Wayne State University	21-00741-08		Amended License. Amendment issued in response to a request to authorize removal of sources (uCi quantities) from unused scintillation counters (LSCs) for disposal. Follow up to SLIV violation.	600401	11/02/17	01100

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
Michigan State University	21-00021-29		Amended License. – Amendment issued in response to request to increase materials authorizations for byproduct material with Atomic No. greater than 83, authorize an additional Sr-90 eye applicator (vet. use), and add 35.200 material for R&D use. Request to change RSC chair.	618134	05/20/20	01100
Mallinckrodt Nuclear Medicine LLC	24-04206-01		Amended License. Amendment issued to increase 2 isotopes on the license and expand uses in accordance with proprietary requests in ML18192A827. Site visit performed.	609344	09/25/18	03211
Curium US LLC	24-04206-01		Amended License. Amendment issued to add or significantly expand Cu-64, Ga-68, and Ge-68 authorizations.	611118	04/08/19	03211
Cardinal Health Nuclear Pharmacy Services	34-29200-01MD		Amended License. Amendment issued to authorize the NorthStar RadioGenix Mo-99/Tc-99m generator system.	612027	7/22/19	04210
Methodist Hospital of Gary	13-16558-01		Amended License. Amendment authorizing storage, installation, acceptance, and commissioning testing of a new Elekta, Inc. Perfexion model gamma knife.	609093	10/10/18	02230, 02240
Eurofins BioPharma Product Testing Columbia, Inc.	24-13365-01		Amended License. Amendment issued to change licensed program including reduction in authorized uses and changes to procedure for conducting lab surveys. Change to RSC chair.	621395	09/22/20	03610
Sigma-Aldrich Manufacturing, LLC	24-16607-03		Terminated License. Research & Development – Other	601077	11/08/17	03620
Niowave, Inc.	21-35144-03		Terminated License. Industrial Radiography Temporary Job Sites, Byproduct Material Standby – No Operations	601593	12/05/17	03320, 03810

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
University of Wisconsin – Milwaukee	48-09944-01		Terminated License. Academic Type B - Broad	601555	01/30/18	01110
Lincoln University of Missouri	24-16097-01		Terminated License. Byproduct Material Standby – No Operations	593055	02/07/18	03810
Jackson Community College	SNM-1171		Terminated License. SNM Possession Only (non-fuel) – Permanent Shutdown	613633	10/15/19	223300
Kirksville College of Osteopathic Medicine	24-17210-01		Terminated License. Research & Development – Other	610769	7/17/19	03620
Wabash College	13-07419-02		Terminated License. Research & Development – Other	621420	03/04/21	03620
Cardinal Health 414, LLC	34-32780-01		Decommissioning License. Decommissioning and termination of license for PET cyclotron facility.	601331	10/11/17	03900
Curators of the University of Missouri – Columbia	24-00513-32		Decommissioning License. – Decommissioning of farm animal burial site for unrestricted use.	591693	10/17/17	02110
Central Michigan University	21-01432-02		Decommissioning License. - Decommissioning of former areas where mCi quantities of C-14 and H-3 were used.	593032	01/26/18	03620
NSF International	21-15209-02		Decommissioning License. – Decommissioning of former areas where uCi quantities of Ra-226 and Ra-228 were used.	594420	02/06/18	03124
Curators of the University of Missouri	24-00513-37		Decommissioning License. – Decommissioning request for several locations within the Biological Sciences Building.	602353	03/01/18	03620
Washington University in St. Louis	24-00167-11		Decommissioning License. – Decommissioning request for former areas where C-14 and H-3 were used.	602380	03/26/18	02110
National Aeronautics & Space Administration	34-00507-16		Decommissioning License. – Decommissioning of cyclotron vault.	599800	05/08/18	03620

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
St. Catherine Regional Hospital	13-23665-01		Bankruptcy Review. Bankruptcy process initiated as early as 2012, but escalated in 2016 with the hospital formally closing. Licensed material was not removed at the time of the hospital closure, and mCi quantities of Co-57 and Cs-137 were inappropriately transferred to the new owner. Full license termination in Mar. 2018.			
Lakeshore Toltest Corporation	34-35052-01		Bankruptcy Review. Initial bankruptcy notification received in 2014 without resolution until the license expired on October 31, 2020. This licensee is currently undergoing enforcement review for unauthorized transfer of two radium-226 moisture density gauges and two hand-held x-ray analyzers containing americium-241 and cadmium-109 sealed sources.			
Schultz Surveying & Engineering, Inc.	24-32159-01		Bankruptcy Review. Licensee entered bankruptcy proceedings in the 2016-2017 timeframe and ultimately had the NRC license revoked for non-payment of fees in Jan. 2018. The NRC was able to verify transfer of all licensed material, except for one moisture density gauge through inspection of the licensee. The licensee was later found to have inappropriately transferred the one remaining gauge to Veterans Worldwide, a new license applicant (CN608932) that was not authorized at the time to possess licensed material. The gauge was located in an Agreement State when the issue was identified by the NRC and ultimately transferred to an authorized entity prior to the termination of the NRC license.			

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
The Dow Chemical Company	21-00265-06		Renewed License. Research and Development Broad – Type A, Measuring Systems – Fixed Gauges, Portable Gauges, Analytical Instruments	594610	10/23/17	03610, 03120, 03121, 03122
Analytical Bio-Chemistry Laboratories, Inc.	24-13365-01		Renewed License. Research and Development Broad – Type A, Measuring Systems – Gas Chromatographs	599636	11/30/17	03610, 03123
Leidos, Inc.	24-32591-01		Renewed License. Waste disposal service processing or repackaging, decontamination services, leak test services, source material greater than 150 kg, SNM sealed and unsealed, less than critical mass.	599636	11/16/17	03234, 03219, 03220, 03221, 11300, 22110, 22111, 22150, 22151
University of Notre Dame du Lac	13-01983-15		Renewed License. Academic Type A Broad, Fixed Gauges, Irradiators other <10000 Ci, Irradiators self shielded >10,000 Ci, Source Material less than 150 kg, SNM less than critical mass.	599976	12/18/17	01100, 03210, 03511, 03520, 11200, 22110, 22111
InstroTek, Inc.	32-32666-01		Renewed License. Other Services, sources less than or equal to 100 Ci.	600958	03/13/18	03225
Indiana Department of Homeland Security (IDHS)	13-06028-02		Renewed License. SNM – unsealed, less than critical mass, R&D – other, source material less than 150 kg.	608948	11/14/18	22110, 03620, 11200, 22111
Covance Laboratories, Inc.	13-32713-01		Renewed License. Research and Development Broad – Type B, Measuring System Gas Chromatographs	610913	06/04/19	03611, 03123
Dow Agrosciences	13-26398-01		Renewed License. Research and Development Broad – Type A, Measuring System Gas Chromatographs	612617	12/26/19	03610, 03123

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
Industrial Maintenance Engineering, Inc.	13-32049-01		Renewed License. Other Services Sources less than or equal to 100 Ci, M&D other, General License Distribution, R&D Other	614098	02/06/20	03225, 03214, 03240, 03620
SOFIE Co. d/b/a Sofie	45-25221-05		Renewed License. Radionuclide production using an accelerator.	616031	03/24/20	03210
Department of the Army	24-32221-01		Renewed License. R&D Broad Type A, Measuring Systems Portable Gauges, Irradiators Self Shielded <10,000 Ci, Source material <150 kg, SNM sealed sources less than critical mass.	617077	05/20/20	03610, 03121, 03510, 11200, 22151
Washington University in St. Louis	24-00167-14		Renewed License. Radionuclide production using an accelerator.	622649	02/02/21	03210
Region IV						
University of Alaska Fairbanks	50-02430-07	R&D Type B Broad Scope	Renewal	622617	2/9/21	
US Dept of Interior, USGC	05-01399-08	Board Scope Type A Academic, R&D	Release of laboratories-Group 2-3, Building 21	622602 618761 611589	10/1/20	
Qal-Tek	11-27610-01	M&D, waste disposal	Renewal	612191	11/1/19	
US Dept of Interior, USGC	05-01399-08	Broad Scope R&D	Release multiple locations. Complex decommissioning requiring decom inspector review	611589	10/8/19	
H&H X-Ray Services	17-19236-01	Radiography	Renewal with multiple devices and several SSD cross references	613739	12/9/19	
International Isotopes	11-27680-01MD	M&D Broad Type A	Distribute radiopharmaceutical (I-131) to radiopharmacies with FDA approval.	613966	2/13/20	
Idaho Falls Community Hospital	11-35569-01	Medical no WD	New license. This action was considered complex because the revision of NUREG, Volume 9 was issued during the renewal process. The license reviewer issued an additional RAI to the licensee, in order to ensure that the renewal application information from the third revision of NUREG 1556, Volume 9 was addressed appropriately.	616083	10/31/19	

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
Providence Health & Services	25-16773-02	HDR	Removal of Cs-137 irradiator and deactivation of NSTS license.	617168	12/11/19	
University of Wyoming	49-09955-10	Academic Broad Scope	Renewal	617261	1/14/20	
Providence Alaska	50-17838-01	HDR	HDR virtual entrance door (required TAR)	6097226 12090	TAR/ame ndment complete5 /7/2019	
Adanta	04-35535-01	D&D	New license	611623	9/27/19	
International Isotopes	11-27680-01MD	Type A Broad Scope	Procedure for decontamination of area where breached source occurred at University of Washington. Expedited request. Received 6/5/19. Second expedited request for review of procedure OP-SRC-047 Rev. C (Rev. B approved on previous amendment).	6123746 12612	6/12/19 7/3/19	
Blackjewel	49-26963-03	Fixed gauge	Change of control; Expedited request (2 days) to meet bankruptcy court proceedings. Extenuating circumstances (issue consent before 30-day posting) coordinated with regional counsel and OGC	613770	8/6/19	
International Isotopes	11-27680-01MD	Type A Broad Scope	Renewal	622818	In progress	
Montana State University	25-00326-06	Academic Type A Broad Scope	Renewal	622931	3/30/2021	
South Dakota Science & Technology	40-35101-01	R&D Type A Broad Scope	Amendment. Required technical review of air handling/ventilation systems and unique (i.e. underground) facility lay-out.	317620	4/30/2020	
BRP Vet Clinic	11-35625-01	Veterinary Clinic	New License: first NRC application for use of Synovetm (Sn-117m) for treatment of osteoarthritis in canines	624360	3/26/21	
Idaho State University	11-27380-01	Academic Broad Scope	Renewal	617844	7/27/2020	
South Dakota School of Mines & Tech.	40-27640-01	Academic Broad Scope	Renewal	618612	7/15/2020	
Loenbro	25-35574-01	Industrial	New. This action authorizes NSTS	616839	1/2/2020	03320

Licensee	License No.	License Type	Why Complex?	Control No.	Date Complete	PC
Inspection		Radiography	sealed sources greater than CAT 2 quantities. The applicant held several agreement state licenses and requested a license with the NRC.			
Qal-Tek	11-27610-03	Waste Disposal Processing/ Repacking	New application for Mayfield Verification Facility. Requested to use US Ecology methodology to “approve” alternate disposal requests. Application withdrawn by applicant following call advising of intent to deny. This new application was a collaboration between Region IV, OGC, and NMSS. A new application is currently being reviewed by Region IV.	613323	Withdrawn	

*The State of Wyoming assumed oversight responsibilities for uranium recovery facilities located in that state on October 1, 2018. The NRC staff had several licensing actions that were in progress at the time of the turnover to the State of Wyoming. There were a total of 6 licensing actions that were turned over to the State of Wyoming for completion. These actions are included in the list of licensing actions provided [insert location] and include the phrase “Transferred to WY” as the last action (with a date of September 28, 2018) in the tracking spreadsheet. Prior to the turnover, the NRC staff identified a logical endpoint for licensing reviews that could not be completed and worked with the State of Wyoming staff to ensure the status of the licensing reviews was understood. In addition to the 6 licensing actions, the State of Wyoming became responsible for the license termination process for the conventional uranium mills located within that State. Prior to the turnover, the NRC staff clarified the steps remaining in the license termination process for the 6 conventional mills in Wyoming.

Appendix P: Variances and Exemptions

Licensee	License #	MC #	Requirement	Action	PC	Reviewer	Date Issued
Uranium Recovery							
Homestake Mining of California				Exemption requested from one of their license conditions requiring daily walkdowns by a qualified radiation safety technician. An exemption was granted allowing the licensee to use another trained but not fully qualified staff member for the daily walkdowns while the RST was away. https://www.nrc.gov/docs/ML2009/ML20099A179.pdf			04/08/2020
Rio Algom Mining LLC				Exemption requested from a license condition requiring monthly groundwater monitoring. An exemption was granted allowing the licensee to defer the collection of groundwater samples in April and May of 2020 until June of 2020. https://www.nrc.gov/docs/ML2011/ML20111A322.pdf			04/21/2020
Homestake Mining of California				A second exemption was requested for an extension for the due date of their corrective actions as ordered by condition 5 of Confirmatory Order EA-16-114. An exemption was granted allowing an extension of 120 to the due date of the corrective actions. https://www.nrc.gov/docs/ML2013/ML20134H851.pdf			05/15/2020

Licensee	License #	MC #	Requirement	Action	PC	Reviewer	Date Issued
UNC Mining and Milling, Division of United Nuclear corporation				Exemption requested from a license condition requiring quarterly groundwater monitoring. An exemption was granted allowing the licensee to defer the collection of groundwater samples in the second quarter of 2020 to the third quarter of 2020. https://www.nrc.gov/docs/ML2016/ML20162A199.pdf			06/18/2020
Sealed Source and Device							
Agilent Technologies			QA Program Commitment	Postponement of commitment to perform audit of their sealed source supplier. ML20133L537			5/19/20
Low-Level Waste							
Waste Control Specialist				Extend Possession Time of Los Alamos National Laboratory Waste in the Exemption Order Condition 8.B.4 Until December 23, 2022. ML20252A182.			12/07/2020
				Extend Possession Time of Los Alamos National Laboratory Waste in the Exemption Order Condition 8.B.4 Until December 23, 2020. ML18269A318.			12/19/2018
Region I							
Univ. of CT	06-01450-47	618555		Covid-19 Ex. For Security Training	04618 03510 04416 11200	Reichard	04/10/2020
NIH	19-00296-10 19-00296-17 19-00296-21	618594 618595 618596		Covid-19 Ex. Inst. Cal, leak test, surveys, etc.	2110 2230 03520 03210	Weidner	04/23/2020

Licensee	License #	MC #	Requirement	Action	PC	Reviewer	Date Issued
HHS-FDA	20-08361-01	618552		Covid-19 Delay getting FA Signatures	03610	Courtemanche	04/27/2020
Howard University	08-00386-19 University 08-03075-07 Hospital	618593 618599		Covid-19 Ex. For Program surveys and inspections	01100	Courtemanche	04/27/2020
Boehringer Ingelheim	06-19183-01	618708		Covid-19 delay for license inventory and SA	03610	Shaffer	04/28/2020
US Army	19-12056-02 SMB-141	616857 618670		Covid-19 delays	03610	Ullrich	04/29/2020
Univ. of CT	06-01450-47	618639		Covid-19 LLEA Training	04618	Reichard	05/01/2020
USDA	19-00915-03	618758		Covid-19 Insp., training,	04617	Pfingsten	05/07/2020
DHS – National Urban Security Tech Lab	31-31334-01	618782		Covid-19, Inventory, RSC meetings	03710	Wardrobe	05/07/2020
Agilent	07-28762-01	618783		Covid-19 Inventory, leak test	03214	Ullrich	05/15/2020
Banco de Sangre	52-25344-01	618804		Covid-19 LT, Surveys, Calibrations	03510	Ragland	05/15/2020
Cardinal Health	34-31473-02MD	NA		Covid-19, delay for NRC Form 5	02500	Orlikowski	05/15/2020
USEPA	32-14048-04	618950		Covid-19 Dosimetry Exchange	03610	Pfingsten	06/01/2020
Siemens Medical	32-35165-01	621121		Covid-19 dosimeter wear periods	03225	Reichard	06/26/2020
Univ. of CT	06-01450-47	624004		Covid-19 Ex. For Security Training Extension	04618 03510 04416 11200	Reichard	01/22/2021
DLA	37-30062-01	624639		Covid-19 Qtr. Lab Audits	03225	Reichard	03/04/2021
Agilent Technologies	07-28762-01	622634		Covid-19 Extension	03214 03225 03620	Ullrich	08/25/2020
Howard University	08-00386-19 University	622624		Covid-19 Ex. For Program surveys and inspections	01100	Kauffman	01/15/2021
DHS – National Lab	31-31334-01	622622		Covid-19 Extension	037110	DeBoer	08/05/2020
NIH	19-00296-17	592838		Exemption 10 CFR 71.5(b)	03510	Ragland & Ullrich	04/04/2018

Licensee	License #	MC #	Requirement	Action	PC	Reviewer	Date Issued
ChristianaCare Health System	07-12153-02	625414		Covid-19 exemption for meter calibration	04822	Weidner	05/04/2021
Region III							
U.S. Army Joint Munitions Command Safety and Risk Management Directorate			10 CFR 30.34(e)	ML20129J883			05/08/2020
Cardinal Health			10 CFR 22.2206(c)	ML20136A319			05/15/2020
Department of Veterans Affairs Veterans Health Administration National Health Physics Program			10 CFR 30.34(e)	ML20126A508			05/19/2020
Wayne State University			10 CFR 30.34(c)	ML20140A142			05/19/2020
NASA Glenn Research Center			10 CFR 30.34(e)	ML20141L647			05/20/2020
Wayne State University			10 CFR 20.1906(c)	ML20149K579			05/28/2020
University of Michigan			10 CFR 35.610(d)(2)	ML20150A397			06/01/2020
Beaumont Health System			10 CFR 35.60(b), 35.61(a), 35.67(b)(2), 35.67(g), 35.310(a)	ML20148M331			06/02/2020
Department of Veterans Affairs Veterans Health			Exemption to allow MML to grant temporary exemptions to permittees.	ML20202A457			06/21/2020

Licensee	License #	MC #	Requirement	Action	PC	Reviewer	Date Issued
Administration National Health Physics Program							
Ascension St. John Macomb Oakland Hospitals			10 CFR 30.34(c)	ML20181A444			06/30/2020
Bronson Battle Creek Hospital			10 CFR 30.34(c)	ML20181A456			06/30/2020
Wayne State University			10 CFR 30.34(c)	ML20238B950			08/26/2020
NASA Glenn Research Center			10 CFR 30.34(c)	ML20241A300			08/31/2020
University of Michigan			10 CFR 20.1101(c)	ML20302A155			10/28/2020
Washington University in St. Louis			10 CFR 30.35(f)	ML20309A706			11/09/2020
Washington University in St. Louis			10 CFR 35.610(e)	ML20332A161			11/30/2020
Department of Veterans Affairs Veterans Health Administration National Health Physics Program			Exemption to allow MML to grant temporary exemptions to permitees.	ML20349A148			12/14/2020

Licensee	License #	MC #	Requirement	Action	PC	Reviewer	Date Issued
Department of Veterans Affairs Veterans Health Administration National Health Physics Program			10 CFR 30.34(e)	ML20350B610			12/15/2020
Region IV							
ProTechnics			10 CFR 39.77	Request for temporary storage rather than abandonment. ML20112F532		Simmons	4/20/20
Cordero Mine			License Condition 13.A	COVID-related travel restrictions on leak test vendor ML20120A617		Hanson	4/30/20
Avera McKennan Nuclear Medicine			License Condition 13.C	COVID-related - Common carrier not allowed to deliver RAM packages inside hospital. ML20121A234		Torres	4/30/20
Avera McKennan Nuclear Medicine			License Condition 13.C	COVID-related. Request for 90-day extension of exemption.		Torres	7/30/20
Schlumberger			10 CFR 39.71(a)	COVID-related. Evacuation of non-essential personnel, including logging supervisor, from drilling rig to accommodate deep-cleaning following positive COVID-19 test. Verbal approval by vonEhr 7/30/2020. Written approval, with OGC NLO, 8/4/2020. ML20216A507 ML20217L101		Hanson	8/4/20
Avera McKennan Nuclear Medicine			License Condition 13.C	COVID-related. Request for 90-day extension of exemption. ML20300A441		Torres	10/26/20

Department of Energy (DOE) Exemptions Granted

Applicant	Regulation	Date Issued	Description
Region III			
Lawrence Livermore National Security	10 CFR 30.12	06/01/2017	Exemption for Joint Training and Field Exercise in Chicago, Illinois. (ML17153A112)
		09/15/2017	Exemption for Joint Training and Field Exercise in St. Ignace, MI. (ML17258A814) SER – (ML17258A887)
Region IV			
Lawrence Livermore National Security	10 CFR 30.12	FY2019	one
Idaho National Laboratory	10 CFR 30.12	FY2019	Seven
		FY2020	Seven
		FY2021	one
National Security Technologies, LLC (NSTec)-MSTS	10 CFR 30.12	FY2019	Seven
		FY2020	one
		FY2021	one

Appendix Q: Procedures

Document	Date Issued	Description
Complex Materials Decommissioning		
NUREG 1757, Volume 2, Revision 2	Sept. 2020	Issued, as a draft, for public comment in. Currently revising the document based on public comments received.
Uranium Recovery		
NMSS DUWP 70-1 Review Process for New Uranium Recovery License Applications	Dec. 2020	Completed development of a new internal policy and procedure document focused on the review of new uranium recovery license applications. ML20269A111 (link will only work from inside NRC)
Evaluations of Uranium Recovery Facility Surveys of Radon and Radon Progeny in Air and Demonstrations of Compliance with 10 CFR 20.1301	June 2019	Completed the development of interim staff guidance. ML14058A010
Sealed Source and Device		
Branch Policy and Guidance Directives		Revised to reflect the name changes of new organizational units due to re-organization.
NUREG-1556, Volume 3.	Sept. 2015	Agreement State Staff supported the revision
Low-Level Waste		
Proposed Disposal Procedures and Transfers of Radioactive Material	April 2020	The NRC staff issued Guidance under 10 CFR 20.2002 and 10 CFR 40.13(a). ML19295F109
Region I		
NUREG-1556 Series		Licensing Guidance for Materials Licensees https://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/index.html
Licensing Templates		Transitioned to the use of Web-Based Licensing to create, process, and publish licensing documents. G:\WBL Documents
Licensing Guidance		Implemented electronic signatures and transitioned to a paperless remote licensing process. G:\Reference\Licensing
Storage		Transitioning from storage of our licensing documents on a shared G: drive to a SharePoint site. G:\Reference\License Letter Templates
Tool Kits		https://www.nrc.gov/materials/miau/mat-toolkits.html#6
Licensing Job Aid		G:\Inspection and Licensing Working Group 10282011

Document	Date Issued	Description
Region III		
NUREG 1556 Vol. 6 Rev. 1	June 2018	Program-Specific Guidance About 10 CFR Part 36 Irradiator Licenses
NUREG 1556 Vol. 7 Rev. 1	Feb. 2018	Program-Specific Guidance About Academic, Research and Development, and Other Licenses of Limited Scope, Including Electron Capture Devices and X-Ray Fluorescence Analyzers
NUREG 1556 Vol. 8 Rev. 1	June 2018	Program-Specific Guidance About Exempt Distribution Licenses
NUREG 1556 Vol. 9 Rev. 3	Sept. 2019	Program-Specific Guidance About Medical Use Licenses
NUREG 1556 Vol. 12 Rev. 1	May 2018	Program-Specific Guidance About Possession Licenses for Manufacturing and Distribution
NUREG 1556 Vol. 13 Rev. 2	Mar. 2019	Program-Specific Guidance About Commercial Radiopharmacy Licenses
NUREG 1556 Vol. 14 Rev. 1	Apr. 2018	Program-Specific Guidance About Well Logging, Tracer, and Field Flood Study Licenses
NUREG 1556 Vol. 16 Rev. 1	July 2018	Program-Specific Guidance About Licenses Authorizing Distribution to General Licensees
NUREG 1556 Vol. 17 Rev. 1	July 2018	Program-Specific Guidance About Licenses for Special Nuclear Material of Less than Critical Mass
NUREG 1556 Vol. 18 Rev. 1	Aug. 2017	Program-Specific Guidance About Service Provider Licenses
NUREG 1556 Vol. 20 Rev. 1	Nov. 2020	Guidance About Administrative Licensing Procedures
Basis of Confidence Licensing Checklist	Jan. 2020	Checklist to Provide a Basis for Confidence that Radioactive Materials Will be Used as Specified on the Application
License Term Memo	Aug. 2017	Procedure for implementing the 15-year materials license term.
RIS 2005-31	Dec. 2017	Control of security-related Sensitive Unclassified Non-Safeguards Information handled by individuals, firms, and entities subject to NRC regulation of the use of source, byproduct, and special nuclear material.
License reviewer standard checklist. Rev. 7	Jan. 2019	Standard checklist used by license reviewers when processing each licensing action. Reviewers may make personal additions to the checklists they use.

Document	Date Issued	Description
35.1000 Licensing Guidance	Various	All updates to licensing guidance pertaining to emergent medical technologies may be found on the NRC Medical Uses Licensee Toolkit at the following link: https://www.nrc.gov/materials/miau/med-use-toolkit/emerg-licensed-med-tech.html
COVID-19 Exemption Licensing Guidance	Apr. 2020 – Aug. 2020	All guidance relating to temporary exemptions due to the COVID-19 PHE are located on the NRC COVID-19 Regulatory Activities webpage at the following link: https://www.nrc.gov/about-nrc/covid-19/materials/med-indust-academic.html
Region IV		
NUREG-1556 series		Utilized the guidance provided and the information provided on the Materials Licensees Toolkits on the NRC website.
Memorandum		Issued that addressed exemptions to regulations contained in Title 10 of the <i>Code of Federal Regulations</i> Parts 30 and 34 or license conditions that licensees requested due to the public health emergency caused by the Coronavirus Disease 2019 (COVID-19). ML20108E940.